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Thoughts and Interpretations Based on Plato's Geometry and Cosmology.

Extracts from Social Media discussions.

by
Panagiotis Stefanides

“Being [όν] , Place [χώρον] and Becoming [γένεσιν]” - Pl.Ti 52D

SPACE [Χώρος]

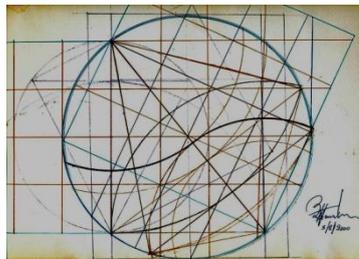
QUINTESSENCE [Plato's Fifth Consistency – Εύστασις -Pl.Ti 55C.]

FOUR ELEMENTS [Traces of- i.e. Matter] in Disorder ,

Transformed by God via Ideas and Numbers

Pl. Ti 53B.

**Time [Motion- eternal image, moving according to number, even that which
we have named Time.... Pl. Ti 37-39]**



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I mainly based my work trying to Decode Plato's Most Beautiful Triangle.

Plato in his Timaeic Philosophy assumes existence of matter before creation in the form of traces of the " four elements", [and the existence of a fifth " consistency"]:

With respect to world's creation, Plato states that, according to his thinking after having performed some assumptions, that three things exist before Heaven's coming into creation: Being, Place and Becoming. According to Plato's Timaeus,The conditions prevailed before the world was created, while all elements [FIRE, AIR, EARTH and WATER] were "WITHOUT PROPORTION" [alogos] and "WITHOUT MEASURE" [ametros], and only "TRACES" of them existed, as all things, naturally exist in God's absence. God, under these conditions, transformed them via "IDEAS" and "NUMBERS", for them to become "MOST BEAUTIFUL" and "BEST" as possible, contrary to their previous state..... According to Plato [Timaeus 37 -39] : ...He planned to make a movable image of Eternity, He made an eternal image, moving according to number, even that which we have named Time.... He contrived the production of days and nights and months and years ...And these are all portions of Time; as "Was" and "Shall be" are generated forms of Time...

....Time, then, came into existence along with Heaven, to the end that having been generated together they might also be dissolved together... this reasoning and design...with a view to the generation of Time, the sun and moon....and the other stars,...."planets", came into existence for the determining and preserving of the numbers of Time..... [Loeb]. In sections 53-54, of Plato's "Timaeus", Plato speaks about the triangular shapes of the Four Elements [traces existed in disorder –matter- before their harmonization by God], of their kinds and their combinations... <http://www.stefanides.gr>

http://www.stefanides.gr/pdf/BOOK%20_GRSOGF.pdf

http://www.stefanides.gr/.../PROPOSED_GEOMETRY_OF_THE...w.stefanides.gr/pdf/BOOK%20_GRSOGF.pdf

Link attached above is a book [of mine], based on international conference proceedings.

Bares work on a very special scalene orthogonal triangle[quadrature triangle- my interpretation of Plato's Timaeus "most Beautiful Triangle"] similar to ,but not the same as, the Kepler/Magirus triangle[its qualities are for me of importance]

It relates squares, circles, parallelograms....:

Further Link : http://www.stefanides.gr/html/Root_Geometries.htm ,

shows images of interpreted logic of the geometries structuring the five Platonic solids from lines, triangle surfaces volumes , via structuring a great pyramidal model [lines assumed to represent combinations of the four

elements].

L^1 / T^0 , L^2 / T^0 , L^3 / T^1 , L^4 / T^1 , L^4 / T^2 , L^5 / T^2 , L^5 / T^3 .

Length (L^1) and surface (L^2) are timeless ($T^0 = 1$), Encephalic Concepts.
Ref. p13:

* http://www.stefanides.gr/html/All_triangles_derive.htm

In a static, but vibrating field [aether- electromagnetic medium], conductive [massive] elemental lines with alternating bipolar charges moving in it by the action of the field , should result into alternating currents running within them.

Two such lines could be contacted electrically at the ends of each line, via their + and - charges, and similarly

three lines [in the correct lengths] could form triangles [orthogonal according to my theory], and in such forming a surface. Similarly by joining two pairs of such triangular forms [elecromagnetically attracted by the currents running within them] could create materialistic volumes[tetrahedra].Continuing, by these similar actions of electromagnetic forces, the joining of these materialistic volumes[tetrahedra] could result into further building blocks of matter.

According to my geometric theory [pure classical geometry, based on the Square Root of the Golden Section] such materialistic volumes [tetrahedra] build a Great Pyramid Model via which the structure of the world of the 5 Platonic [or Eucleidian] solids are formed.

Ref:

http://www.youtube.com/watch?v=c39K0iHRtgg&list=UUi4v2r_QyjvOZSOeD6PBuVA&index=1&feature=plcp

http://www.stefanides.gr/html/Root_Geometries.htm

http://www.stefanides.gr/html/All_triangles_derive.htm
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https://www.researchgate.net/post/Is_there_a_reasonable_alternative_to_the_theory_of_the_expanding_universe/8

... In subjects concerning motion, forces, energy, power etc., I noticed, that, there exist seven (7) basic forms, which appear to derive one from the other and thus related. These forms (relationships) necessary for the creation of a (powerful) work element, from its conceptual idea to materialization are Line, surface, volume per unit time (mass rate of unity water density), momentum,

force, work (or energy) and power. They are fractions with numerators powers of space (length) and denominators powers of time:

L^1 / T^0 , L^2 / T^0 , L^3 / T^1 , L^4 / T^1 , L^4 / T^2 , L^5 / T^2 , L^5 / T^3 .

Length (L^1) and surface (L^2) are timeless ($T^0 = 1$), Encephalic Concepts.

Ref. p13:

http://www.stefanides.gr/pdf/BOOK%20_GRSOGF.pdf "

I contemplate the beginning of the universe structured by rarefied elemental masses at high temperature in a gravitational field that attracts them, from a lower gravitational potential to higher one and lower temperature, moving towards it and cooling at the same time to solidification, moving in a form of a vortex[due to a medium – possibly called ether], giving the impression of expanding, but infact converging to a point of highest gravitational potential [this could be the so called black hole], resulting to the highest speed that matter could attain, before its possible disintegration to its constituent elements[and start again a possibly similar cycle].

My personal thought is that the expansion could also be anticipated, similarly, in a 3D vortex and masses accelerating towards the eye [black hole?] , disintegrating there particles' radiation and contribute to universe's regeneration.

In a static, but vibrating field [aether- electromagnetic medium], conductive [massive] elemental lines with alternating bipolar charges moving in it by the action of the field , should result into alternating currents running within them.

Two such lines could be contacted electrically at the ends of each line, via their + and - charges, and similarly

three lines [in the correct lengths] could form triangles [orthogonal according to my theory], and in such forming a surface. Similarly by joining two pairs of such triangular forms [electromagnetically attracted by the currents running within them] could create materialistic volumes[tetrahedra].Continuing, by these similar actions of electromagnetic forces, the joining of these materialistic volumes[tetrahedra] could result into further building blocks of matter.

According to my geometric theory [pure classical geometry, based on the Square Root of the Golden Section] such materialistic volumes [tetrahedra] build a Great Pyramid Model via which the structure of the world of the 5 Platonic [or Euclidean] solids are formed.

Ref:

http://www.youtube.com/watch?v=c39K0iHRtgg&list=UUi4v2r_QyjuOZSOeD6PBuVA&index=1&feature=plcp

http://www.stefanides.gr/html/Root_Geometries.htm

http://www.stefanides.gr/html/All_triangles_derive.htm

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https://www.researchgate.net/post/Is_there_a_reasonable_alternative_to_the_theory_of_the_expanding_universe/8

**You may refer to the following extracts of my stated ideas [ResearchGate discussion :
On varying speed of flow of time over our life]**

My understanding of time goes

to the phase of solid matter structures being formatted [before they get energized to attain motion]. Further back to this evolution of solid matter, time is an eternal abstract continuum.

An Architect Engineer's, parallel, is his encephalic concepts before his final creation is materialized.

He provides in his mind the lines, surfaces and volumes [encephalic dimensionless and timeless forms] of the final object he wants to build.

Then he starts the implementation of materialization, progressively step by step [on a time scale schedule] building up his project.

If his object [a machine] involves motion forces and power then he designs it accordingly . Time as mentioned is involved, but also.

The final product involves another form of time, that of how powerful, the final machine is required to be by the Engineer's Client, and how much money he has to spend for fuel energy to provide this power and its "Time Duration".

Relevant Ref:

In subjects concerning motion, forces, energy, power etc., I noticed, that, there exist seven (7) basic forms, which appear to derive one from the other and thus related. These forms (relationships) necessary for the creation of a (powerful) work element, from its conceptual idea to materialization are Line, surface, volume per unit time (mass rate of unity water density), momentum, force, work (or energy) and power. They are fractions with numerators powers of space (length) and denominators powers of time:

L^1 / T^0 , L^2 / T^0 , L^3 / T^1 , L^4 / T^1 , L^4 / T^2 , L^5 / T^2 , L^5 / T^3 .

Length (L^1) and surface (L^2) are timeless ($T^0 = 1$), Encephalic Concepts.

Ref. p13:

http://www.stefanides.gr/pdf/BOOK%20_GRSOGF.pdf

<https://www.linkedin.com/grp/post/1931832-5892177000294014977>

I could add here one or two of the many questions problematizing me for a long time on this matter.

Couldn't the cause of the spinning galaxies be the result of friction of their moving masses through a medium i.e the so called Aether?

Another short one is the accelerating in expansion of universe shouldn't it imply a positive form of gravity?

https://www.researchgate.net/post/Why_is_pi_equal_to_3141592/6

....Since there are hundreds of Pi approximations round the same c/d ratio, my search on a special [quadrature] triangle lead me to the following results, that it, possibly, be worthwhile searching for its truth:

- 1) http://www.stefanides.gr/pdf/D=5,083FOUR_1.pdf
- 2) http://www.stefanides.gr/pdf/QRT7A16_64BYPI_1.pdf
- 3) <http://www.stefanides.gr/Html/QuadCirc.htm>

Second link [AutuCAD] configuration is a scale up by 10 of the first [AutuCAD] link configuration.

The third link is a simplified configuration form of the first link.

The whole, step by step, progressive analysis is found under my links:

<http://www.stefanides.gr/Html/gmr.htm>

http://www.stefanides.gr/Html/GOLDEN_ROOT_SYMMETRIES.htm

http://www.stefanides.gr/pdf/BOOK%20_GRSOGF.pdf

<http://www.stefanides.gr/Html/piquad.htm>

Also[mainly in Greek], including further work:

http://www.stefanides.gr/pdf/PROPOSED_GEOMETRY_OF_THE_PLATONIC_TIMAEUS_GREEK.pdf.pdf

The basis of solution lies on the properties of the “ quadrature triangle” what I interpreted as Plato’s “ Most Beautiful” for which I worked for many years.

This triangle is similar [but not the same] to the [Kepler/Magirus](#) triangle [known for over 400 years [but-as far as I know- was not elaborated by scientists or mathematicians].

This discussion as problematizes many , according to the various logical questions and propositions, gives me the opportunity to suggested to many valued scientists to refer to the roots of geometry which , according to my research lies in the truth checking triangle ,that which for more than 400 years has not been examined in depth and in general not taught at school or universities, but could be find it in some second rate pocket books. This is the KEPLER TRIANGLE given to him by a Certain MAGIRUS, according to the book “ A Mathematical History of Division in Extreme and Mean Ratio by Prof.Roger Herz-Fischler[Wilfrid Laurier University Press 1987].

Independently my work elaborated on PLATO’S ORTHOGONAL “ MOST BEAUTIFUL TRIANGLE” as proposed my interpretation to this triangle with its full qualities for structuting the FIVE POLYHEDRA [together with the ISOSCELES ORTHOGONAL] from the FOOR ELEMENTS [mathematically interpreted by numbers related to the sides of these triangles]

This triangle is similar to the KEPLER /MAGIRUS triangle, is not the same and not as fair. [a constituent triangle of PLATO’S TRIANGLE]

This has the quality that the product of its small side by the hypotenuse is the square of its bigger side identifying it as “THE QUADRATURE TRIANGLE”

Using its hypotenuse as a diameter of a circle, together with certain invented theorems We get quadrature results that previous investigations were impossible for quadrature. Under this light of facts physics with simple novel classical mathematics could make a certain difference.

Please refer to:

http://www.stefanides.gr/pdf/BOOK%20_GRSOGF.pdf

http://www.stefanides.gr/html/Root_Geometries.htm

http://www.stefanides.gr/html/All_triangles_derive.htm ...

http://www.stefanides.gr/Html/Proposed_Geometry_of_the_Platonic_Timaeus.htm ...

[http://www.stefanides.gr/pdf/SYMMETRIES_OF_THE_PLATONIC_TRIANGLES_\[WORD\].pdf](http://www.stefanides.gr/pdf/SYMMETRIES_OF_THE_PLATONIC_TRIANGLES_[WORD].pdf)

....

<http://www.stefanides.gr/Html/platostriangle.htm>

http://en.wikipedia.org/wiki/Kepler_triangle

• Please have a glance at my geometric proposition of particle structural compositions:

http://www.stefanides.gr/html/Root_Geometries.htm

http://www.stefanides.gr/html/All_triangles_derive.htm

http://www.stefanides.gr/Html/Proposed_Geometry_of_the_Platonic_Timaeus.htm

[http://www.stefanides.gr/pdf/SYMMETRIES_OF_THE_PLATONIC_TRIANGLES_\[WORD\].pdf](http://www.stefanides.gr/pdf/SYMMETRIES_OF_THE_PLATONIC_TRIANGLES_[WORD].pdf)

http://www.stefanides.gr/pdf/BOOK%20_GRSOGF.pdf

...by giving my small structure of the "somatoides tetrahedron" using magnets [to represent possibly magnetic dipoles:

"SOMATOIDES" STRUCTURE by MAGNET RODS by P.STEFANIDES .

THIS STRUCTURE INDICATES THAT SOMATOIDES TETRAHEDRAL STRUCTURE COULD BE ACHIEVED BY MAGNETIC DIPOLES ,REPRESENTING EDGE LENGTHS AND ALL OTHER PHYSICAL PROPERTIES BASED ON THE SQUARE ROOT OF THE GOLDEN SECTION.

BUILDING THIS SPECIAL FORM OF TETRAHEDRON IS BASED ON TWO PAIRS OF TRIANGLES [REF PLATO'S TIMAEUS MOST BEAUTIFUL TRIANGLE- P.STEFANIDES.

THE SIDES OF THESE [ORTHOGONAL TRIANGLES] REPRESENT GEOMETRICALLY THE 4 PLATONIC ELEMENTS, IN GEOMETRIC RATIOS $T^3/T^2=$

$=T^2/T^1 = T^1/1 = \text{FIRE}/\text{AIR} = \text{AIR}/\text{WATER} = \text{AIR}/\text{WATER} = \text{WATER}/\text{EARTH} = T$
 WHERE T IS THE SQRT[Phi] OBEYING : $T^4 - T^2 - 1 = 0$

<http://www.youtube.com/watch?v=c39K0iHRtgg>
<http://www.youtube.com/watch?v=RZveCeZKaPs>
http://www.youtube.com/watch?v=LYws_JV0PNQ
<http://www.youtube.com/watch?v=CEAB1TKGyHs>
<http://www.youtube.com/watch?v=oyB9fYhVZgY>
<http://www.stefanides.gr>

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REF:

http://www.linkedin.com/groupAnswers?viewQuestionAndAnswers=&discussionID=124958543&gid=3091009&commentID=85450501&trk=view_disc&ut=2pZZy-jsVsV5g1

.....1)The equation $x^2+16x^2-256=0$ has two real solutions (+- 3.1446055110296931442782343433718...) and a pair of complex conjugate (+-5.0880785980562758570096898469500i) but this is not pi, it is very close to pi..

The actual equation is : $x^4+16x^2-256=0$

Ref. the wolfram alpha solution :

http://www.wolframalpha.com/input/?i=x%5E4%2B16*x%5E2-256%3D0&dataset=&equal=Submit

**ROOT GEOMETRIES STRUCTURING THE ICOSAHEDRON,
THE OTHER BASIC POLYHEDRA AND THE GEOMETRIC FORMS RELATED TO
THEM**

http://www.stefanides.gr/html/Root_Geometries.htm

All triangles derive their origin from two triangles [PI.Ti. 53 D].

http://www.stefanides.gr/html/All_triangles_derive.htm

Conference Budapest 2006

http://www.stefanides.gr/Html/GOLDEN_ROOT_SYMMETRIES.htm

Geometry related to a new concept of logarithms and spirals :

Why Logarithm

http://www.stefanides.gr/Html/why_logarithm.htm

Nautilus Log base

<http://www.stefanides.gr/Html/Nautilus.htm>

0.125 = 1/8 and Squared = 0.015625 = 1/64.

**Also, $[0.125 / 10] + 1 = 1.0125 =$
 $= 1/0.9876543209876543209876543209876543209876543209876543209876543$**

[from WolframAlpha]

So the relevant orthogonal triangle has hypotenuse $\sqrt{2}$ small horizontal side 0.125 , and the third side [i.e 1.408678458698080] is related pythagorically by these two sides' values.

The interest is on this form of repeated series of numbers.

....., possibly of interest are the following:

$[9/4] * [\sqrt{2}] = [9/8] * [\sqrt{8}] = 3.181980515..$

$[3.181980515.]^2 = \{[9/4] * [\sqrt{2}]\}^2 = 10.125$

$1/10.125 = 8/81 = 0.098765432..$

[WolframAlpha :

0.0987654320987654320987654320987654320987654320987654320987654...

1 - 1- 0.9876543209876543209876543209876543209876543209876544 =
= 0.0123456790123456790123456790123456790123456790123456... = 1/81

{[1/ 3.181980515..] = 0.314269681..}

Also, $10.125 = 81/80$ and,

NOTES

By using sections of the four solids, we find the relationships, between them i.e. the Icosahedron with the Octahedron, the Tetrahedron and the Cube. In addition, if we add selective sections (one next to the other), of the three solids, Icosahedron, Octahedron and Tetrahedron, we find an angle [epsilon $41.8103149.\text{Deg.}=2*\arctan\{1/T^4\}=\arctan\{1/\sqrt{(1.25)}\}$] which we find also in a Section of the Dodecahedron.

In this manner we obtain a relationship, of the Dodecahedron with the other Four Platonic Solids. Dodecahedron was considered as the Fifth Solid, mentioned by PLATO in his Timaeus [a Fifth Consistency he states], which "God used it up to Paint the World", and was given the name AETHER, by the philosophers.

$41.8103149.\text{Deg.}=2*\arctan\{1/T^4\}=\arctan\{1/\sqrt{(1.25)}\}$

[$41.8103149 \text{ deg} = 0.729727656 \text{ rad}$]

Ref:

http://www.stefanides.gr/pdf/BOOK%20_GRSOGF.pdf [page 17]

and,

http://www.stefanides.gr/pdf/PROPOSED_GEOMETRY_OF_THE_PLATONIC_TIMAEUS_GREEK.pdf.pdf [Page 30]

<http://www.wolframalpha.com/input/?i=arctan%7B1%2Fsqrt+%281.25%29%7D%3D>

https://www.linkedin.com/grp/post/1931832-5960109677013397507#commentID_discussion%3A5960109677013397507%3Agroup%3A1931832

Plato in his Timaeus refers to traces of the 4 [i.e. implying elemental massive quantities by my consideration in the form of a 4 line spectrum] elements existed before Creation [in disharmony] and after being harmonized resulted into building the the UNIT "Stereoid Bond" , the "Somatoides" i.e that which has matter, via the use of two orthogonal

triangles, the Isosceles and the Scalene one, which he referred to as the "MOST BEAUTIFUL TRIANGLE [and finally building the 5 SOLIDS].

Ref: Pl.Ti.53, 54 , 55

http://www.stefanides.gr/pdf/BOOK%20_GRSOGF.pdf

<http://www.stefanides.gr/Html/Photo.htm>

http://www.stefanides.gr/html/Root_Geometries.htm

http://www.stefanides.gr/html/All_triangles_derive.htm

http://www.stefanides.gr/pdf/PROPOSED_GEOMETRY_OF_THE_PLATONIC_TIMAEUS_G...

Up to now parts of this Plato's work may have been considered as "Dark".

But are they?

Should this work be reviewed and reinterpreted?

https://www.researchgate.net/profile/Panagiotis_Stefanides/answers

Plato refers to " a fifth consistency " Pl.Ti 55C.

Liddell @ Scott under "αιθήρ" gives references : fifth element, Pl.Epin. 981c, Arist.Cael.270 h 22;

Note:

"αιθήρ" = aithêr (aether in Latin, ether in American English) .

<https://www.linkedin.com/pulse/structuring-dodecahedron-aether-panagiotis-stefanides?trk=prof-post>

<https://www.linkedin.com/pulse/structuring-dodecahedron-aether-panagiotis-stefanides?trk=prof-post>

Plato refers to “ a fifth consistency ” PL.Ti 55C.
 Liddell @ Scott under “αιθήρ” gives references : fifth element, Pl.Epin. 981c,
 Arist.Cael.270 h 22;

Plato's dialogue [Timaeus](#) (c. 360 B.C.) associates the other four [platonic solids](#) with the four classical elements; Aristotle postulated that the heavens were made of a fifth element, [aithêr](#) (aether in Latin, ether in American English), but he had no interest in matching it with Plato's fifth solid.

Ref:

http://taggedwiki.zubiaga.org/new_content/9849877f1a4488ea738ca983d6ce43d9

Time is " The Moving Image of Eternity" .

..... According to Plato [Timaeus 37 -39] : ...He planned to make a movable image of Eternity, He made an eternal image, moving according to number, even that which we have named Time.... He contrived the production of days and nights and months and years ...And these are all portions of Time; as “Was” and “Shall be” are generated forms of Time...

....Time, then, came into existence along with Heaven, to the end that having been generated together they might also be dissolved together... this reasoning and design...with a view to the generation of Time, the sun and moon....and the other stars,....”planets”, came into existence for the determining and preserving of the numbers of Time.....

Panagiotis Stefanides

<http://www.stefanides.gr>

I understand that all geometric figures are related together apart the circle which is related to them by the constant π .

As this is an approximate value, by thus, geometry is turned into physics, where constants are used, in the form of approximation.

Thus we cannot expect any form of unification under this form of π .

I have worked for lengthy periods in my past, searching this question.

I went to Plato [Timaeus], and studied the original statement regarding the two orthogonal triangles as basic for the structure of solids.

These are the orthogonal isosceles and the orthogonal scalene.

I made my interpretation as to the form of the scalene one, which inscribed in a circle [after searching specially contrived conditions for relationships with it], get relationships with parallelogrammes and squares [complying with Euclidean theorems]

http://www.stefanides.gr/pdf/2012_Oct/PHOTO_12.pdf

http://www.stefanides.gr/pdf/BOOK%20_GRSOGF.pdf .

Similarly this method proves [in one page the insoluble of 3.141592654.....]

http://www.stefanides.gr/pdf/2012_Oct/PHOTO_11.pdf .

I attach the simplest form of these relationships in the photo below.

Many links may be found giving the solution [$4/\sqrt{\sqrt{5}+1}/2$], approx.: 3.14460551.....]

My Links, however, below give the compass and ruler solution, coupled in parallel with AutoCad graphics for checking further.

<http://www.stefanides.gr/Html/piquad.htm>

https://www.researchgate.net/publication/257469474_Qrt7a_1

P.S. a similar triangle [but not the same] is the Magirus triangle given to Kepler and known as Kepler triangle .

https://www.researchgate.net/post/Why_is_pi_equal_to_3141592/6

I attach a further equation I composed [based on my equation originally derived equation $T^4 - T^2 - 1 = 0$ <http://www.stefanides.gr/Html/quadrature.htm>] :

$[1/X]^{12}-[1/X]^{11}+[1/X]^{10}-[1/X]^9-[1/X]^8-[1/X]^5-[1/X]^4+[1/X]^3-[1/X]^2+1=0$,

and [here shown solved by Wolfram Alpha] giving the square root of the golden section [real positive: 1.27201965.. on which a great pyramid model , of my work, is based :

https://www.researchgate.net/publication/259005701_stef1]:

<http://www.wolframalpha.com/input/?i=%5B1%2FX%5D%5E12-%5B1%2FX%5D%5E11%2B%5B1%2FX%5D%5E10-%5B1%2FX%5D%5E9-%5B1%2FX%5D%5E8-%5B1%2FX%5D%5E5->

%5B1%2FX%5D%5E4%2B%5B1%2FX%5D%5E3-
%5B1%2FX%5D%5E2%2B1%3D0&dataset=&equal=Submit

$$[1/X]^{24}-[1/X]^{22}+[1/X]^{20}-[1/X]^{18}-[1/X]^{16}-[1/X]^{10}-[1/X]^8+[1/X]^6-[1/X]^4+1=0$$

<http://www.wolframalpha.com/input/?i=%5B1%2FX%5D%5E12-%5B1%2FX%5D%5E11%2B%5B1%2FX%5D%5E10-%5B1%2FX%5D%5E9-%5B1%2FX%5D%5E8-%5B1%2FX%5D%5E5-%5B1%2FX%5D%5E4%2B%5B1%2FX%5D%5E3-%5B1%2FX%5D%5E2%2B1%3D0&dataset=&equal=Submit>

My attached photo refers to a gauge for testing pi values, deviated from a maximum symmetry point [according to my proposed theory of maximum symmetry- point on the circle the square the triangle - P.C.S.T. :

http://www.stefanides.gr/pdf/2012_Oct/PHOTO_13_GEOMETRY_DESIGN.pdf

http://www.stefanides.gr/pdf/2012_Oct/PHOTO_10_PCST_Maximum_Symmetry_Point.pdf

It is pity that mathematics and science stopped seeking the real problem of the quadrature of circle with due importance to the seeked Unification of Forces, and importance is given to finding the infinitely numerous digits of pi. Classical Philosophy, so good for all unsolved problems, is let to shade. All the well known unsolved problems, but not circle, have a solution by other mathematical means than that of solving them simply, however their solutions are checked back for their truth.

-<http://www.stefanides.gr>
-http://www.stefanides.gr/pdf/D=5,083FOUR_1.pdf
-<http://ireport.cnn.com/people/PCSTEFANIDES?viewingAsOthers=true>
-https://www.youtube.com/watch?v=XeOjPmKSsOI&feature=em-upload_owner

<http://www.themushroom.net/2011/06/squaring-the-circle-or-rather-circling-the-square/>

[16/II]^2 -[II]^2- 16=0 PANAGIOTIS STEFANIDES [FOR WolframAlfa]
<http://www.stefanides.gr>

FOR THIS VALUE OF II :

$\Pi = 3.14460551..$

FOR THE VALUE OF DIAMETER = $[16/\Pi] = 5.0880786..$

CIRCUMFERENCE = 16 = A SQUARE WITH SIDE [4]=QUARTER CIRCLE.

THIS QUARTER SIDE [4] MULTIPLIED BY THE DIAMETER $[16/\Pi]$

EQUALS $[4]*[16/\Pi] = [64/3.14460551..] = 20.3523144..$

ROOT OF THIS IS A SQUARE OF SIDE 4.511353943..

AREA OF CIRCLE OF DIAMETER $[16/\Pi] = [\Pi/4]*[16/\Pi]^2 =$

$= [0.786151378..]*[5.0880786..]^2 = [0.786151378..]*[25.88854384] =$

$= 20.35231441..$

THIS AREA OF CIRCLE IS EQUAL TO THE SQUARE OF SIDE 4.511353943..

REF: <http://www.stefanides.gr/Html/QuadCirc.htm>

http://www.stefanides.gr/Html/theo_circle.htm

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Is plato's timaeus triangle [orthogonal scalene] justifiably interpreted under its currently accepted form.

My interpretation is that the Scalene Orthogonal Triangle is governed by the equation

$T^4 - T^2 - 1 = 0$, where T is the SQUARE ROOT of the Golden Ratio. Its Scalene Angle $\theta = \text{ARCTAN}[T]$, and the product of Triangle's Small Side by its Hypotenuse is equal to the SQUARE of its Bigger Side [i.e. it is a Quadrature Triangle].

Triangle is Similar but Not the Same as the Kepler [Magirus] one.

I have given my interpretation.

Possibly get any form of opinion.

Please Refer to:

P.S. Sides of the proposed Scalene Orthogonal:

Hypotenuse is equal to T^3 , Bigger Side is equal to T^2 , and Smaller Side is equal to T^1 .

Ratio of Sides :

$$T^3 / T^2 = T^2 / T^1 = T$$

https://www.researchgate.net/post/Is_platos_timaeus_triangle_orthogonal_scalene_justifiably_interpreted_under_its_currently_accepted_form

Theories that found classical insoluble problems by ruler and compass have for solutions methods involving certain mathematical approaches , by which results may be checked by feeding them back.

For instance solving the problem of doubling of the cube and finding that the third root of 2 is 1.25992105...

We check back if it is true [to the involved approximation] we get

$$[1.25992105..]^3 = 2$$

[using a hand held scientific computer]

Similarly with the trisection of an angle etc.

Ref: http://www.stefanides.gr/Html/Classical_Problems_et_Alii_with_Web_Links.htm

However with circle's pi we do not have a theoretical "Standard Model Theory" for doing this feeding back checking.

Theorists proved that pi is transcendental and cannot square the circle.

However none of their methods involved the "Quadrature Triangle " as I call the one I proposed as Plato's Timaeus "Most Beautiful Triangle" [PMBT] similar to which is the "Kepler/Magirus" [known for more than 400 years- uninvestigated and untaught in general] but not as beautiful as Plato's [component triangle of the PMBT.

Ref :

a) <http://www.stefanides.gr/Html/platostriangle.htm>

b) http://www.stefanides.gr/Html/GOLDEN_ROOT_SYMMETRIES.htm

c) http://www.stefanides.gr/pdf/GOLDEN_ROOT_SYMMETRIES_OF_GEOMETRIC_FORMS_by_Panagiotis_Stefanides.pdf .

It seems that theorists seeked a value of pi that could prove the case of quadrature of circle.

However this is not a requirement, in first case, because as shown below it is shown that this relationship exists by using natural numbers based on the “PROPERTIES” of the “QUADRATURE TRIANGLE”.

Ref :

d) <https://www.linkedin.com/pulse/circle-circumference-equated-naturally-square-area-pi-stefanides?trk=mp-reader-card>

e) <https://www.linkedin.com/pulse/eppur-si-muove-circolo-la-quadratura-irrispettivo-del-stefanides>

Further to this findings, by contriving certain theorems applicable to this case, we get the value of pi as the ratio of 4/ SQRT [Golden Number] , by ruler and compass [being irrational], which was anticipated, for many years as an approximate one, by many researchers and book authors.

Ref :

f) http://www.stefanides.gr/pdf/2012_Oct/PHOTO_12.pdf

g) [compare : http://www.stefanides.gr/pdf/2012_Oct/PHOTO_11.pdf)

h) <http://www.stefanides.gr/Html/QuadCirc.htm>

i) <http://www.stefanides.gr/Html/piquad.htm>

j) http://www.stefanides.gr/Html/theo_circle.htm

k) http://www.stefanides.gr/pdf/DIALOGO_2014_PANAGIOTIS_STEFANIDES.pdf

l) https://www.youtube.com/watch?v=XeOjPmKSsOI&feature=em-upload_owner

I thank you,

Regards from Athens,

Panagiotis Stefanides

<http://www.stefanides.gr>

[SUPPLEMENT DIALOGO MY EXTENDED PAPER DIALOGO 2014.pdf](#)

https://www.researchgate.net/post/Is_platos_timaeus_triangle_orthogonal_scalene_justifiably_interpreted_under_its_currently_accepted_form

I would like to give my own understanding of the Concept of

“Space/Time” Relationship, as Power Ratios of Length and Time [L/T].

Simply I have noticed that, there exist Seven [7] Basic Forms, which appear to derive one from the other, in a gradually escalating form of powers and thus “Symmetrically” related.

These Forms [Relationships] necessary for the creation of a [powerful] work element, from its conceptual idea to materialization are:

Line, Surface, Volume per Unit Time*[mass rate*of unity water density], Momentum, Force, Work [or Energy] and Power.

These are Ratios with Numerators Powers of Space [Length-L] and Denominators Powers of Time[T]:

L^1 / T^0 , L^2 / T^0 , L^3 / T^1 , L^4 / T^1 , L^4 / T^2 , L^5 / T^2 , L^5 / T^3 .

[Length (L^1) and Surface (L^2) are Timeless ($T^0 =1$) Encephalic Concepts].

Panagiotis Stefanides

Having understood Plato's Timaeus Geometry, and decoded parts of it [according to my perception and the examinable proofs, -reflected from my publications' and open discussions' feedback received internationally], gave me the chance to challenge standard beliefs about the structure of the Universe.

I understand that it takes lengths of time, for something similar to be acceptable by many.

Plato states that even if you find God, it will be difficult to explain to everybody.

I state this with respect to time and space .

This is exactly where Plato states of the existence of the 4 elements [traces of –i.e. matter] in "disorder " before creation. [i.e. mathematical chaos] and God harmonized them by numbers and ratios.

Time for Plato is the “ movable image of eternity”.

I understand that, for me time before creation is $T =1$.

[I noticed, that, there exist seven (7) basic forms, which appear to derive one from the other and thus related. These forms (relationships) necessary for the creation of a (powerful) work element, from its conceptual idea to materialization are Line, surface, volume per unit time* (mass rate*of unity water density), momentum, force, work (or energy) and power. They are fractions with numerators powers of space (length) and denominators powers of time

L^1 / T^0 , L^2 / T^0 , L^3 / T^1 , L^4 / T^1 , L^4 / T^2 , L^5 / T^2 , L^5 / T^3 .

Length (L^1) and surface (L^2) are timeless ($T^0 =1$), Encephalic Concepts.

Above may be found under link [and other] of mine e.g.:

http://www.stefanides.gr/pdf/BOOK%20_GRSOGF.pdf

http://www.stefanides.gr/pdf/PROPOSED_GEOMETRY_OF_THE_PLATONIC_TIMAEUS_GREEK.pdf.pdf

Plato in his Timaeic Philosophy assumes existence of matter before creation in the form of traces of the “ four elements”, [and the existence of a fifth “ consistency”]:

With respect to world's creation, Plato states that, according to his thinking after having performed some assumptions, that three things exist before Heaven's coming into creation: Being, Place and Becoming. According to Plato's Timaeus,The conditions prevailed before the world was created, while all elements [FIRE, AIR, EARTH and WATER] were “WITHOUT PROPORTION” [alogos] and “WITHOUT MEASURE” [ametros], and only “TRACES” of them existed, as all things, naturally exist in God's absence. God, under these conditions, transformed them via “IDEAS” and “NUMBERS”, for them to become “MOST BEAUTIFUL” and “BEST” as possible, contrary to their previous state..... According to Plato [Timaeus 37 -39] : ...He planned to make a movable image of Eternity, He made an eternal image, moving according to number, even that which we have named Time.... He contrived the production of days and nights and months and years ...And these are all portions of Time; as “Was” and “Shall be” are generated forms of Time...

....Time, then, came into existence along with Heaven, to the end that having been generated together they might also be dissolved together... this reasoning and design...with a view to the generation of Time, the sun and moon....and the other stars,....”planets”, came into existence for the determining and preserving of the numbers of Time..... [Loeb]. In sections 53-54, of Plato's "Timaeus", Plato speaks about the triangular shapes of the Four Elements [traces existed in disorder –matter- before their harmonization by God], of their kinds and their combinations...

<http://www.stefanides.gr> -----

http://www.stefanides.gr/pdf/BOOK%20_GRSOGF.pdf

http://www.stefanides.gr/.../PROPOSED_GEOMETRY_OF_THE...w.stefanides.gr/pdf/BOOK%20_GRSOGF.pdf

Link attached above is a [book of mine, based on international conference proceedings].

bases work on a very special scalene orthogonal triangle[quadrature triangle- my interpretation of Plato's Timaeus "most Beautiful Triangle"] similar to ,but not the same as, the Kepler/Magirus triangle[[its](#) qualities

are for me of importance]
It relates squares, circles, parallelograms...:

Further Link : http://www.stefanides.gr/html/Root_Geometries.htm,

shows images of interpreted logic of the geometries structuring the five Platonic solids from lines, triangle surfaces volumes , via structuring a great pyramidal model [lines assumed to represent combinations of the four elements].

L^1 / T^0 , L^2 / T^0 , L^3 / T^1 , L^4 / T^1 , L^4 / T^2 , L^5 / T^2 , L^5 / T^3 .

Length (L^1) and surface (L^2) are timeless ($T^0 = 1$), Encephalic Concepts.

Ref. p13:

* http://www.stefanides.gr/html/All_triangles_derive.htm

<https://www.linkedin.com/grp/post/1931832-5892177000294014977>

a] http://www.stefanides.gr/pdf/2012_Oct/PHOTO_12.pdf

b] <http://contest.techbriefs.com/2015/entries/sustainable-technologies/5464>

c] https://www.youtube.com/watch?v=XeOjPmKSsOI&feature=em-upload_owner

d] http://www.stefanides.gr/pdf/DIALOGO_2014_PANAGIOTIS_STEFANIDES.pdf

e] <http://ireport.cnn.com/people/PCSTEFANIDES?viewingAsOthers=true>

f] http://www.stefanides.gr/pdf/BRIDGES_2014_PANAGIOTIS_STEFANIDES.pdf

g] http://www.stefanides.gr/pdf/BOOK%20_GRSOGF.pdf

h] http://www.stefanides.gr/pdf/BOOK_1997.pdf

i]

http://www.stefanides.gr/pdf/PROPOSED_GEOMETRY_OF_THE_PLATONIC_TIMAEUS_GREEK.pdf.pdf

j] <https://hydrodynamica.wordpress.com/2014/09/06/panagiotis-stefanides-from-athens-designer-of-geometry-and-drawing/>

k] http://www.stefanides.gr/pdf/2015/CALENDAR_2015_PANAGIOTIS_STEFANIDES.pdf

l]

[https://www.researchgate.net/publication/260036589_GOLDEN_ROOT_CH_\(1\)_PREPUBLICATION_SECOND_EDITION_TRANSLATION_IN_CHINESE_\(2\)?ev=prf_pub](https://www.researchgate.net/publication/260036589_GOLDEN_ROOT_CH_(1)_PREPUBLICATION_SECOND_EDITION_TRANSLATION_IN_CHINESE_(2)?ev=prf_pub)

http://en.wikipedia.org/wiki/Golden_ratio

According to Wikipedia:

“.....A regular square pyramid is determined by its medial right triangle, whose edges are the pyramid's apothem (a), semi-base (b), and height (h); the face inclination angle is also marked. Mathematical proportions b:h:a of $1 : \sqrt{\varphi} : \varphi$ and $3 : 4 : 5$ and $1 : 4/\pi : 1.61899$ are of particular interest in relation to Egyptian pyramid.

....The angle with tangent $\sqrt{\varphi}$ corresponds to the angle that the side of the pyramid makes with respect to the ground, 51.827... degrees (51° 49' 38")....”

We find that:

$1 : 4/\pi : 1.61899$ gives tangent angle : 51.8539 [7401... (51° 51' 14").....

Here π is not related to Φ .

By the Pythagorean theorem we find that the given triangle relates π with Φ only for $\pi = 4/\sqrt{\varphi}$.

Similarly, according to my equation:

$\pi^4 + [4*\pi]^2 - 4^4 = 0$ giving a real root : $\pi = 4/\sqrt{\varphi}$.
 [BOOK 1997- Page 46]

$4/\sqrt{\varphi}$ for π has been envisaged for years , as approximation, however I have presented my geometically and theoretical proof of this quantized value for π per link reference:
http://www.stefanides.gr/Html/GOLDEN_ROOT_SYMMETRIES.htm

[Symmetry Festival 2006, Budapest – International Conference]
 BOOK 1997- http://www.stefanides.gr/pdf/BOOK_1997.pdf

21/09/2014

https://www.researchgate.net/profile/Panagiotis_Stefanides/answers?ev=prf_ans

Plato in his Timaeic Philosophy assumes existance of matter before creation in the form of traces of the “ four elements”, [and the existence of a fifth “ consistency”]:

“The conditions prevailed before the World was Created, while all elements [FIRE, AIR, EARTH and WATER] were “WITHOUT PROPORTION” [alogos] and “WITHOUT MEASURE” [ametros], and only “TRACES” [i.e materialistic] of them existed, as all things, naturally exist in God’s absence. God, under these conditions, transformed them via “IDEAS” and “NUMBERS”, for them to become “MOST BEAUTIFUL” and “BEST” as possible, contrary to their previous state [Pl. Ti .53B]”.

http://www.stefanides.gr/pdf/BOOK%20_GRSOGF.pdf

Link attached above is a [book of mine, based on international conference proceedings].

bases work on a very special scalene orthogonal triangle[quadrature triangle-my interpretation of Plato's Timaeus "most Beautiful Triangle"] similar to ,but not the same as, the Kepler/Magirus triangle[its qualities are for me of importance]

It relates squares, circles, parallelograms....:

Further Link : http://www.stefanides.gr/html/Root_Geometries.htm ,

shows images of interpreted logic of the geometries structuring the five Platonic solids from lines, triangle surfaces volumes , via structuring a great pyramidal model [lines assumed to represent combinations of the four elements].

In subjects concerning motion, forces, energy, power etc., I noticed, that, there

exist seven (7) basic forms, which appear to derive one from the other and thus related. These forms (relationships) necessary for the creation of a (powerful) work element, from its conceptual idea to materialization are Line, surface, volume per unit time (mass rate of unity water density), momentum, force, work (or energy) and power. They are fractions with numerators powers of space (length) and denominators powers of time:

L^1 / T^0 , L^2 / T^0 , L^3 / T^1 , L^4 / T^1 , L^4 / T^2 , L^5 / T^2 , L^5 / T^3 .

Length (L^1) and surface (L^2) are timeless ($T^0 = 1$), Encephalic Concepts.
Ref. p13:

http://www.stefanides.gr/pdf/BOOK%20_GRSOGF.pdf

worked **lengthily**, searching Plato's Timaeus " Most Beautiful Triangle" and derived a an interpretation of mine , differenent to that of current translations. The triangle [scalene orthogonal] is a harmonic one, it is similar to the Kepler[Magirus] but not the same.

All sides of this triangle are in a geometric ratio and each side to the next is the ratio of the squre root of the Golden Ratio [1.27201965..]. One of the two non 90 deg angles is not 60 deg [as current translations give] but arctan[square root of the Golden Ratio] , equal to 51.82729238...

The specialty of this triangle is that : Product of the small horizontal side by Hypotenuse is equal to the square of the its bigger vertical side. This makes it a very special triangle[quadrature triangle], actually a unique one.

Please refer to :

http://www.stefanides.gr/pdf/BOOK%20_GRSOGF.pdf

My attempting to consider , possible, natural structures, is the following concept:

In a static, but vibrating field [aether- electromagnetic medium], conductive [massive] elemental lines with alternating pipolar charges moving in it by the action of the field , should result into alternating currents running within them. Two such lines could be contacted electrically at the ends of each line, via their + and - charges, and similarly

three lines [in the correct lengths] could form triangles [orthogonal according to my theory], and in such forming a surface. Similarly by joining two pairs of such triangular forms [elecromagnetically attracted by the currents running within them] could create materialistic volumes[tetrahedra].Continuing, by these similar actions of electromagnetic forces, the joining of these materialistic volumes[tetrahedra] could result into further building blocks of matter.

According to my geometric theory [pure classical geometry, based on the Square Root of the Golden Section] such materialistic volumes [tetrahedra] build a Great Pyramid Model via which the structure of the world of the 5 Platonic [or Eucleidian] solids are formed.

Ref:

http://www.stefanides.gr/html/Root_Geometries.htm

http://www.youtube.com/watch?v=c39K0iHRtgg&list=UUi4v2r_QyivOZSOeD6PBuVA&index=1&feature=plcp
http://www.stefanides.gr/html/Root_Geometries.htm

http://www.stefanides.gr/html/All_triangles_derive.htm

Yes [to my own understanding], if philosophy is proved to be true, mainly by mathematics and primarily geometry if this is proved [and not accepted a priori] to be true. Then science follows.

I attach my Calendar with my New Year 2014 wishes, for peace and prosperity and consideration for the poor.

<http://www.stefanides.gr>

Logically, for me as I feel, the spirit or soul of a living being is a discrete frequency, lying within a wave spectrum of all possible frequencies of the creation.

Following, the energy we discuss should be the energy of its discrete frequency as part of the total energy of this spectrum.

Also, to add my contemplation on its [spirit or soul] coexistence with matter, matter should be organized[ordered or harmonized] and become vibrant together, as a unity.

Notes:

According to Plato [Timaeus], matter [traces of the 4 elements in disorder] existed before creation, together with a fifth consistency [πνευμασία- named by other philosophers Aether].

I feel that this fifth consistency is the electromagnetic wave field, and disorder, the dissociation of matter from the wave, i.e. no vibrant

<http://www.stefanides.gr>

http://www.stefanides.gr/Html/GOLDEN_ROOT_SYMMETRIES.htm

<http://gallery.bridgesmathart.org/exhibitions/2014-bridges-conference/panagiotis-stefanides>

<http://gallery.bridgesmathart.org/exhibitions/2014-Bridges-Conference>

http://www.stefanides.gr/pdf/PROPOSED_GEOMETRY_OF_THE_PLATONIC_TIMAEUS_GREEK.pdf.pdf

<http://www.stefanides.gr/Html/platostriangle.htm>

http://www.stefanides.gr/Pdf/CONFERENCE_DEMOKRITEIO_UNIVERSITY_GREEK.pdf

http://www.stefanides.gr/Pdf/CONFERENCE_NATIONAL_RESEARCH_INSTITUTION_GREEK.pdf

https://www.linkedin.com/groupItem?view=&gid=1872005&type=member&item=5944968113090023428&commentID=5947623736315256832&report%2Esuccess=8ULbKyXO6NDvmok7o030UNOYGZKrvdhBhypZ_w8EpQrrQI-BBjkmxwkEOwBjLE28YyDIxcyEO7_TA_giuRN#commentID_5947623736315256832

<https://www.linkedin.com/groupItem?commentID=-1&item=5944968113090023428&type=member&gid=1872005&view=&readyComment=true#lastComment>

https://www.linkedin.com/groupItem?view=&gid=1872005&type=member&item=5944968113090023428&commentID=5947285610162065408&report%2Esuccess=8ULbKyXO6NDvmok7o030UNOYGZKrvdhBhypZ_w8EpQrrQI-BBjkmxwkEOwBjLE28YyDIxcyEO7_TA_giuRN#commentID_5947285610162065408

$$0/0 = [0^1] / [[0^!]] = [0^1] * [[0^{-1}]] = [0^{(+1-2)}] = 0^0$$

$$0^0 = ?$$

$$0^0 = 1 + 0 \log(0) + 1/2 (0 \log(0))^2 + 1/6 (0 \log(0))^3 + 1/24 (0 \log(0))^4 + 1/120 (0 \log(0))^5 + \dots =$$

$$[+ 0 \log(0) + 1/2 (0 \log(0))^2 + 1/6 (0 \log(0))^3 + 1/24 (0 \log(0))^4 + 1/120 (0 \log(0))^5 + \dots = 0]$$

$$0^0 = 1 + 0 \log(0) + 1/2 (0 \log(0))^2 + 1/6 (0 \log(0))^3 + 1/24 (0 \log(0))^4 + 1/120 (0 \log(0))^5 + \dots = 1$$

$$0^0 = 1 \gg 0/0 = 0^0 = 1$$

[D%5D%5D%5E6%5D%2F720+%3D&dataset=&equal=Submit](#)

* =

= 1.9999999658026652694876858373914242861184256336984063

series solution tending to the value of 2

Ref : [<http://www.stefanides.gr/Html/logarithm.htm>]

Also: <http://www.stefanides.gr/Html/Nautilus.htm>

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https://www.linkedin.com/groupItem?view=&gid=1872005&type=member&item=5944968113090023428&commentID=5947285610162065408&report%2Esuccess=8ULbKyXO6NDvmok7o030UNOYGZKrvdhBhypZ_w8EpQrrQI-BBjkmxwkEOWBjLE28YyDIxcyEO7_TA_giuRN#commentID_5947285610162065408

PANAGIOTIS STEFANIDES

CHARTERED ENGINEER [UK] at Eur Ing Panagiotis Ch. Stefanides CEng MIET

My theory on logarithm [Spiralalgorithm] is based on defining it as the ratio of two angles of a vector length on a point of a spiral. This vector having a defined angle Θ_1 deg. from X-axis of reference .The spiral crosses the Y-axis with say a value e [base] at Θ_2 [90 deg.

The the logarith of this vector length is defined as the ratio of Θ_1/Θ_2 , which further lies on another curve [defined Stephanoid Curve - Special case ofr the Archimedes Spiral].

Ref: <http://www.stefanides.gr/Html/logarithm.htm>

Why Lopgarithm:

The following relates a Nautilus drawn spiral [based on a Natural shell] curve to the Square Root of the Golden Number- log base T= 1.27201965...]

<http://www.stefanides.gr/Html/Nautilus.htm>

Making use of this theory we may draw $a^{b/c}$ functions where a, b and c real numbers.

Example:

DOUBLING OF THE CUBE by use of Panagiotis Stefanides

Theory of Spirologarithms [Why Logarithm]:

http://www.stefanides.gr/Html/why_logarithm.htm

$$* \frac{1}{3} \ln^3 2 / 6 + \left[\frac{1}{3} \ln^4 2 / 24 + \left[\frac{1}{3} \ln^5 2 / 120 + \left[\frac{1}{3} \ln^6 2 / 720 = \right. \right. \right. \right.$$

WolfraAlpha solution : 1.2599210...

*** 1.2599210...**

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Ref:

http://www.wolframalpha.com/input/?i=1%2B%5B1%2F3%5D*%5Bln%5B2%5D%5D%2B%5B%5B%5B1%2F3%5D*%5Bln%5B2%5D%5D%5D%5E2%5D%2F2%2B%5B%5B%5B1%2F3%5D*%5Bln%5B2%5D%5D%5D%5E3%5D%2F6+%2B%5B%5B%5B%5B1%2F3%5D*%5Bln%5B2%5D%5D%5D%5E4%5D%2F24+%2B%5B%5B%5B%5B1%2F3%5D*%5Bln%5B2%5D%5D%5D%5E5%5D%2F120+%2B%5B%5B%5B%5B1%2F3%5D*%5Bln%5B2%5D%5D%5D%5E6%5D%2F720+%3D&dataset=&equal=Submit

I think, best is to use a grid of square tiles.

Draw diagonals.

Two orthogonal isosceli triangles are obtained for each square tile.

Paint one triangle, out of them, by, say green.

Paint , say, red a tile corresponding to two halves of it [i.e. a square tile], under the horizontal side of this triangle,

and similarly do, for the vertical side.

On hypotenuse draw a square achieved by 4 half tiles. Paint it red.

Sum of Red tiles under each side is equal to Red square on the hypotecuse.

This story, I saw it once, on the TV.

As it was said Pythagoras saw and discovered his Theorem while a technician was laying tiles on floor in black and white half square tiles.

I was excited by this and started thinking of his Theorem, of possible application to the third dimension.

https://www.linkedin.com/groups/HOW-WELL-AFTER-BEING-TAUGHT-1872005.S.5948957130236121091?view=&item=5948957130236121091&type=member&gid=1872005&trk=eml-b2_anet_digest-hero-4-hero-disc-disc-0&midToken=AQH3uKTRfIzgXw&fromEmail=fromEmail&ut=19or-3gA2rL6w1

- **CHARTERED ENGINEER [UK] at Eur Ing Panagiotis Ch. Stefanides CEng MIET**

Regarding Aether

We do not know its essence in order to seek for it.

Why not recognize Aether as the universe's electromagnetic field.

The simplest interaction with it is the magnetic field of our Earth, rotating and moving within it, with all consequences of forces, friction , and electrical phenomena induced.

http://www.linkedin.com/groupItem?view=&gid=3091009&type=member&item=5819192461997678593&commentID=5859250486959439872&report%2Esuccess=8ULbKyXO6NDvmok7o030UNOYGZKrvdhBhypZ_w8EpQrrQI-BBjkmxwkEOWBjLE28YyDIxcyEO7_TA_giuRN#commentID_5859250486959439872

CNN iReport:

<http://ireport.cnn.com/people/PCSTEFANIDES?viewingAsOthers=true>

<http://ireport.cnn.com/docs/DOC-891227>

<http://ireport.cnn.com/docs/DOC-892762>

<http://ireport.cnn.com/docs/DOC-890510>

<http://ireport.cnn.com/docs/DOC-896182>

CREATE THE FUTURE DESIGN CONTEST:

<http://contest.techbriefs.com/2012/entries/sustainable-technologies/2631>

<http://contest.techbriefs.com/2013/entries/sustainable-technologies/3465>

<http://contest.techbriefs.com/2011/entries/sustainable-technologies/1179>

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RESEARCHGATE:

https://www.researchgate.net/profile/Panagiotis_Stefanides?ev=hdr_xprf

$$[1/X]^{24}-[1/X]^{22}+[1/X]^{20}-[1/X]^{18}-[1/X]^{16}-[1/X]^{10}-[1/X]^8+[1/X]^6-[1/X]^4+1=0$$

<http://www.wolframalpha.com/input/?i=%5B1%2FX%5D%5E24-%5B1%2FX%5D%5E22%2B%5B1%2FX%5D%5E20-%5B1%2FX%5D%5E18-%5B1%2FX%5D%5E16-%5B1%2FX%5D%5E10-%5B1%2FX%5D%5E8%2B%5B1%2FX%5D%5E6-%5B1%2FX%5D%5E4%2B1%3D0>

According to the Solution by WolframAlpha [one positive real root is 1.1278 with “Exact Form” : $(1/2 (1+\sqrt{5}))^{1/4}$]

$$[X= \text{SQRT}[\text{SQRT}(4/\pi)] = \text{SQRT}(1.27201965..) = 1.127838486...]$$

{ **N.B.** Equation is of the form:

$$[\sqrt{\pi/4}]^{24}-[\sqrt{\pi/4}]^{22}+[\sqrt{\pi/4}]^{20}-[\sqrt{\pi/4}]^{18}-[\sqrt{\pi/4}]^{16}-[\sqrt{\pi/4}]^{10}-[\sqrt{\pi/4}]^8+[\sqrt{\pi/4}]^6- [\sqrt{\pi/4}]^4+1=0 , \text{ For } \pi=4/T\}$$

Defining $\Sigma =\pi$ [for WolframAlfa discrimination SUBSTITUTE calculations , we get:

$$[\sqrt{\Sigma/4}]^{24}-[\sqrt{\Sigma/4}]^{22}+[\sqrt{\Sigma/4}]^{20}-[\sqrt{\Sigma/4}]^{18}-[\sqrt{\Sigma/4}]^{16}-[\sqrt{\Sigma/4}]^{10}-[\sqrt{\Sigma/4}]^8+[\sqrt{\Sigma/4}]^6-[\sqrt{\Sigma/4}]^4+1=0$$

Ref: <http://www.wolframalpha.com/input/?i=%5Bsqrt%28%CE%A3%2F4%29%5D%5E24-%5Bsqrt%28%CE%A3%2F4%29%5D%5E22%2B%5Bsqrt%28%CE%A3%2F4%29%5D%5E20-%5Bsqrt%28%CE%A3%2F4%29%5D%5E18-%5Bsqrt%28%CE%A3%2F4%29%5D%5E16-%5Bsqrt%28%CE%A3%2F4%29%5D%5E10-%5Bsqrt%28%CE%A3%2F4%29%5D%5E8%2B%5Bsqrt%28%CE%A3%2F4%29%5D%5E6-%5Bsqrt%28%CE%A3%2F4%29%5D%5E4%2B1%3D0+>

Getting one real root : $\Sigma = 3.1446$ and exact value of $2 \sqrt{2 (-1+\sqrt{5}))} =$

3.1446055110296931442782343433718357180924882313508929

<http://www.wolframalpha.com/input/?i=3.1446055110296931442782343433718357180924882313508929>

Concluding the final acceptance for solving the “unsolved problem”

comes under the area/circumference of circle/square proof.

Ref: <http://www.stefanides.gr/Html/QuadCirc.htm>

<http://www.stefanides.gr/Html/piquad.htm>

http://www.stefanides.gr/Html/theo_circle.htm

ATTACH A VIDEO FROM A LYCEUM IN RUSSIA

DICUSSING MY MATHEMATICAL WORKS [GEOMETRY] AND AN INVENTION [HEARD MY VOICE FROM LAPTOP] ENDING BY DISTRIBUTIONG TO STUDENTS [AND TEACHERS] MY 2015 CALENDAR..

PANOS

https://www.youtube.com/watch?v=XeOjPmKSsOI&feature=em-upload_owner

REF:

https://www.researchgate.net/post/What_qualities_of_charachter_should_Scientist_have/9

P.S POSSIBLY TARGETS MAY BE TESTED FOR ACCURACIES BY MY INVOLVED QUADRATURE TRIANGLE WORK.

https://www.researchgate.net/post/Is_spirit_our_energy_Is_spirit_dark_energy/4

....The title [part] of the whole question [is spirit our energy ?] involves a philosophical concept "spirit" together with the real entities "energy" and the word "our" [human beings].

I understand that answers given cannot escape from being [at least] purely philosophical....

....In Timaeus [34 B...35.. 36 37..], Plato talks about the Soul:

[translation and comments ref: LOEB CLASSICAL LIBRARY
PLATO IX Translated by R.G. BURY, ISBN 0-674-99257-1]

“ He made her of the materials and in the fashion which I shall now describe.

Midway between the Being which is indivisible and remains the always the same and the Being which is transient and divisible in bodies, He blended a third form of Being Compounded out of the Same and the Other.....and He took the three of them and blent them all together into one form, by forcing the Other into union with the Same....and made them one.....He began to distribute the whole thereof into so many portions....and each portion was a mixture of the Same, of the Other, and of Being.*1

[ἐκ τε ταυτού και θατέρου και της ουσίας μεμυγμένην]

And He began making the divisions thus:

First He took one portion from the whole;
then He took a portion double of this;
then a third portion, half as much again as the second portion, that is three times as much as the first;
the fourth portion He took was twice as much as the second;
the fifth three times as much as the third;
the sixth eight times as much as the first; and
the seventh twenty-seven times as much as the first.**2

After that He went on to fill up the intervals in the series of the powers of 2 and the intervals in the series of powers of 3 in the following manner***3:

He cut off yet further portions..... as to place two Means in each interval – one a Mean which exceeded its Extremes and was by them exceeded by the same proportional part or fraction of each of the Extremes respectively****4;
The other a Mean which exceeded one Extreme by the same number or integer as it was exceeded by other Extreme.....

[comments in the translated text]:

*1 “.... on the Greek principle that like is known by like, Plato makes real substances out of these abstractions and puts them as plastic material into the hands of the Demiurgos for the formation of the Soul.”

****2 These seven numbers may be arranged in two branches, in order to show the two series of which Timaeus immediately goes to speak:**

	1(the 1st)	
	2(the 2nd)	3(the 3rd)
4(the 4th)		9(the 5th)
8(the 6th)		27(the 7th)

*****3 Lit. “the double intervals and the triple intervals.”**

******4 The “ harmonic Mean”**

..... The complete series of terms, from 1 to 27, making thirty-four in all, is intended to correspond with the notes of a musical scale, having a compass of four octaves and a major “ sixth”.....

Is spirit our energy? Is spirit dark energy? - ResearchGate. Available from: https://www.researchgate.net/post/Is_spirit_our_energy_Is_spirit_dark_energy/5 [accessed Nov 7, 2015].....

...I anticipate that, search for the transfer of such energy [as the question of living] at " first "and "last" breathing" transitional interactions, is of philosophica and physiological importance.
Panagiotis

Is spirit our energy? Is spirit dark energy? - ResearchGate. Available from: https://www.researchgate.net/post/Is_spirit_our_energy_Is_spirit_dark_energy/6 [accessed Nov 7, 2015].....

...>...I anticipate that, search for the transfer of such energy [as the question of living] at " first "and "last" breathing" transitional interactions, is of philosophica and physiological importance.....<

Is spirit our energy? Is spirit dark energy? - ResearchGate. Available from: https://www.researchgate.net/post/Is_spirit_our_energy_Is_spirit_dark_energy/15 [accessed Nov 7, 2015].....

...Logically, for me as I feel, the spirit or soul of a living being is a discrete frequency, lying within a wave spectrum of all possible frequencies of the creation.

Following, the energy we discuss should be the energy of its discrete frequency as part of the total energy of this spectrum.

Also, to add my contemplation on its [spirit or soul] coexistence with matter, matter should be organized[ordered or harmonized] and become vibrant together, as a unity.

Notes:

According to Plato [Timaeus], matter [traces of the 4 elements in disorder] existed before creation, together with a fifth consistency [πνευμασία- named by other philosophers Aether].

I feel that this fifth consistency is the electromagnetic wave field, and disorder, the dissociation of matter from the wave, i.e. no vibrant matter and no life, in general.

P.Stefanides

Is spirit our energy? Is spirit dark energy? - ResearchGate. Available from: https://www.researchgate.net/post/Is_spirit_our_energy_Is_spirit_dark_energy/3 [accessed Nov 7, 2015].....

What qualities of character should Scientist have ?

https://www.researchgate.net/post/What_qualities_of_character_should_Scientist_have/9

MY PAPER DIALOGO 2014.pdf

<http://www.stefanides.gr>

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...One aspect of this concept is my view that a double sided picture can only be viewed in our brain, only, if we turn it 180 degrees in our head.. Apparently we imagine things in two dimensions....

http://www.researchgate.net/post/Fifth_dimension

...As Earth is a rotating and moving magnet bearing its magnetic field in space, I suppose that further to its interaction with solar wind particles, there should be frictional forces due to space electromagnetic fields, i.e. similar to motor/generator reactions.

I hope there could be a contemplation on this form of question.

Regards from Athens,

Panagiotis Stefanides

<http://www.stefanides.gr>

http://www.researchgate.net/post/Does_the_rotation_of_the_celestial_object_around_itself_have_any_effect_in_distorting_the_gravitational_waves_around_this_object

[Panagiotis Stefanides](#) added an answer in [Cosmology](#):

....Time, for me,.....simply is a tool for observing, in general, changes in growth, speed, acceleration, force, work or energy and power.

Observing changes involves comparison of two object undergoing changes with respect to a reference "0" point [of an X-Y-Z reference set of axes in space].

I attach my space-time relationships based partly on Classical Mechanics formulae [projected in the possible past, due to observed - by m-] of certain symmetries]:

>... in subjects concerning motion, forces, energy, power etc., I noticed, that, there exist seven (7) basic forms, which appear to derive one from the other and thus related. These forms (relationships) necessary for the creation of a (powerful) work element, from its conceptual idea to materialization are Line, surface, volume per unit time* (mass rate*of unity water density), momentum, force, work (or energy) and power. They are fractions with numerators powers of space (length) and denominators powers of time

L^1/T^0 , L^2/T^0 , L^3/T^1 , L^4/T^1 , L^4/T^2 , L^5/T^2 , L^5/T^3 .

Length (L^1) and surface (L^2) are timeless ($T^0=1$), Encephalic Concepts.....<

Ref. conference paper link:

http://www.stefanides.gr/Html/GOLDEN_ROOT_SYMMETRIES.htm

And,

Page 13, book link:

http://www.stefanides.gr/pdf/GOLDEN_ROOT_SYMMETRIES_OF_GEOMETRIC_FORMS_by_Panagiotis_Stefanides.pdf

According to Plato [Timaeus 37D -39]

....He planned to make a movable image of Eternity,.....He made an eternal image, moving according to number, even that which we have named Time.... He contrived the production of days and nights and months and years,....And these are all portions of Time; as “Was” and “Shall be” are generated forms of Time...Time, then, came into existence along with Heaven, to the end that having been generated together they might also be dissolved together...this reasoning and design...with a view to the generation of Time, the sun and moon....and the other stars,....”planets”, came into existence for the determining and preserving of the numbers of Time....Of the other stars the revolutions have not been discovered by men; wherefore they have no names for them, nor do they compute and compare their relative measurements, so that they are not aware, as a rule, that the “wanderings” of these bodies, which are hard to calculate and of wondrous complexity, constitute Time. Nevertheless, it is still quite possible to perceive that the complete number of Time fulfils the Complete Year when all the eight circuits*, with their relative speeds, finish together and come to a head, when measured by the revolution of the Same and Similarly-moving .

From LOEB CLASSICAL LIBRARY PLATO IX

* περιόδων-

https://www.researchgate.net/profile/Panagiotis_Stefanides/answers

Refer to Plato's Time:

....He planned to make a movable image of Eternity,

....set in order the Heaven....

...HE MADE AN ETERNAL IMAGE MOVING ACCORDING TO NUMBER,

... WHICH WE HAVE NAMED TIME.....[TIMAEUS 37E]

...Time was created along with the Heaven,in order to dissolve concurrently with it,IF EVER A DISSOLUTION OF THEM WILL TAKE PLACE [Timaeus 38B]...

Regards from Athens,

Panagiotis Stefanides

<http://www.stefanides.gr/Pdf/artsymposium.pdf>

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<http://www.stefanides.gr/Html/platostriangle.htm>

http://www.stefanides.gr/pdf/BOOK%20_GRSOGF.pdf

<http://www.stefanides.gr>

Jun 4, 2013

Does time have a beginning? - ResearchGate. Available from:

https://www.researchgate.net/post/Does_time_have_a_begining24

.....Yes, pendulum is a good example.

At this point, it is an occasion for me to mention that, at areas of increased gravitational acceleration, the period T of the simple pendulum decreases, or its frequency of oscillation increases, indicating that in a black hole its period tends to zero but not time as modern theory predicts, “frequency tends to infinity”.

<https://www.linkedin.com/grp/post/3091009-5848797723897114624>

https://www.researchgate.net/post/What_qualities_of_charachter_should_Scientist_have/9

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https://www.researchgate.net/profile/Panagiotis_Stefanides

Social Media Information**Twitter:**

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<http://www.facebook.com/panagiotis.stefanides>

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<http://www.linkedin.com/pub/panagiotis-stefanides/21/99a/b3a>

Personal Website:

<http://www.stefanides.gr>

Favourite Website:

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Resume



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http://www.stefanides.gr/Pdf/CV_STEFANIDES.pdf .
(C.V.) <http://www.stefanides.gr>

Latest paper issued to MEDPOWER 2008 [IET] in Thessaloniki [2-5 Nov. 2008] under the title:

"Compliance of Equipment in Accordance with an Adequate Level of Electromagnetic Compatibility",

Eur Ing Panagiotis Chr. Stefanides, Head of Standards and Certification EMC Hellas sa, Affiliate of Hellenic

Aerospace Industry sa [HAI] 2-4, Messogion Ave [Athens Tower], 11527 Athens, Greece.

<http://medpower08.com/data/General%20Programme.pdf>
<http://www.youtube.com/pstefanides#g/u>



CURRICULUM VITAE

SURNAME: STEFANIDES
NAME: PANAGIOTIS
SON OF: Christos P. Stefanides, and
 Aekaterine Ch. Stefanides
PLACE OF BIRTH: ATHENS (Aegaleo City)
DATE OF BIRTH: 05-01-1945
MARITAL STATUS: Wife Mary [Psychologist]
 Daughter Maria Natalia MRes QMUL, [Phd
 Std.]
ADDRESS: 8, ALONION STR, 145 62 KIFISSIA, ATHENS
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 web: <http://www.stefanides.gr>
 mobile : 697-4096 824

CHARTERED ELECTRICAL ENGINEER [UK]

**PROFESSIONAL ENGINEER, HELLENIC AEROSPACE IND. S.A.[Retired after
 32 years work, the 30th of June 2010].**

Emeritus Honoured Member of the Technical Chamber of Greece

A. EDUCATION/MEMBERSHIPS

PIRAEUS "SANTA BARBARA" PRIMARY SCHOOL - CERTIFICATE 1957
PIRAEUS LYCEUM "PLATO" HIGH SCHOOL (Classical Studies) - DIPLOME 1963.

GCE ORDINARY AND ADVANCED LEVELS OF SCIENTIFIC, MATHS AND LANGUAGE SUBJECTS OF LONDON UNIVERSITY EXAMINATIONS BOARD

B.SC. (ENG) UNIVERSITY OF LONDON HONOURS GRADUATE, ELECTRICAL ENGINEERING DEGREE 1974 (PART I/69, PART II/72, PART III/74) WOOLWICH POLYTECHNIC[THAMES]/ NORTHEAST LONDON POLYTECHNIC[WESTHAM HAM COLLEGE OF TECHNOLOGY].

NATIONAL TECHNICAL UNIVERSITY OF ATHENS M.SC. GRADUATE 1975 ELECTRICAL AND MECHANICAL ENGINEERING[Nuclear Technology Project-Fermi Age- under Professor D.LEONIDOU and Professor M. ANGELOPOULOS [in Chair of N.T.].

MEMBER OF THE TECHNICAL CHAMBER OF GREECE - 1977 (REG. NO 26228) .

EUROPEAN ENGINEER (FEANI) - MEMBER (EUR-ING, TITLE) - 1992, (NO.:12342GR). ASSOCIATE OF THE ISTITUTION OF ELECTRICAL ENGINEERS [AMIEE] 1974 .

MEMBER OF THE ISTITUTION OF ELECTRICAL ENGINEERS [MIEE] 2002

FOUNDER MEMBER OF THE IEE HELLAS CENTRE – 1990 .

MEMBER OF THE BOARD OF THE IEE HELLAS CENTRE COMMITTEE [2000-2003].

MEMBER OF THE BRITISH NUCLEAR ENERGY SOCIETY (ex).

FOUNDER MEMBER OF THE INTERNATIONAL INTERDISCIPLINARY GROUP OF PENAL PHILOSOPHY - PARIS - 1989, (E.I.I.PH.P).

MEMBER OF THE PANHELLENIC SOCIETY OF ELECTRICAL AND MECHANICAL ENGINEERS.

MEMBER OF THE BRITISH GRADUATE SOCIETY OF ATHENS.

LIFE MEMBER OF THE CONVOCATION OF LONDON UNIVERSITY.

MEMBER OF THE BRITISH SOCIETY FOR THE PHILOSOPHY OF SCIENCE (ex).

POST GRADUATE MANAGEMENT STUDIES - ATHENS BASE - 1980 -1981 TROY UNIVERSITY.

RESEARCH in FRACTURE MECHANICS at N.T.U.A UNDER ASS. PROFESSOR PAZIS - 1991 - 1992.

CERTIFICATE QUALITY SYSTEMS (Lead Auditor) CRANFIELD UNIVERSITY 1997.

MEMBER OF THE EUROPEAN SOCIETY OF SCIENTISTS ARTISTS Lit.WRITERS 2006

MEMBER OF THE ISTITUTION OF ENGINEERING AND TECHNOLOGY [MIET]

as IEE redesignated as IET in 2006 .

COMMITTE MEMBER OF IET HELLAS NETWORK[SECRETARY]

MEMBER OF THE TE80 ELECTROMAGNETIC COMPATIBILITY COMMITTEE

[REPRESENTING“HELLASLAB”]OF THE

HELLENIC STANDARDS ORGANIZATION[2008-2010].

MEMBER OF THE TELECOMMUNICATIONS COMMITTEE OF THE HELLENIC MINISTRY OF TRANSPORT AND COMMUNICATIONS, REPRESENTING EMC HELLAS S.A.[Affiliate Hellenic Aerospace Industry S.A.] 2008-2010.

CHARTERED ENGINEER of the ENGINEERING COUNCIL [UK] 2002 .

B. PERSONAL BACKGROUND

GENERAL WORK

IN 1969 GRANTED PERMISSION TO STAY IN THE U.K. FOR AN INDEFINITE PERIOD, AND WORKED PERIODICALLY AS A TECHNICAL AND GENERAL TRANSLATOR/INTERPRETER e.g. TRANSLATIONS BY TELEX, 22

NEWMAN STR., LONDON.

PRACTICAL TRAINING (BEFORE GRADUATION) :

- RECEIVED TRAINING FOR ABOUT 4.5 MONTHS AT THE P.P.C (DEH), POWER STATION ST. GEORGES BAY PIRAEUS, UNDER THE GUIDANCE OF THE ENGINEER MR. G. MAVROUDIS, AND HELPED WITH THE NEW INSTALLATIONS OF ITALIAN AND RUSSIAN POWER UNITS, DURING SUMMER PERIODS OF 1968 - 1969 - 1970.
- RECEIVED TRAINING APP. 1.5 MONTHS OF THE GENERAL FUNCTIONING OF THE SIZEWELL NUCLEAR POWER STATION SUFFOLK ENGLAND, IN THE SUMMER OF 1971._
- ALSO IN THE PAST RECEIVED TRAINING AND NAVIGATION INSTRUCTIONS, FOR ABOUT 6 MONTHS IN THE ENGINE ROOMS AND ON THE BRIDGES OF VARIOUS VESSELS OF RETHYMNLIS AND KULUKOUNDIS CO. LTD 30/33 MINORIES, LONDON., KASSOS AND CHANDRIS LINES (S/S CHELATROS, M/V SOPHIA, M/V YANNIS) , UNDER THE INSTRUCTIONS OF CAPTAIN MARINER C.P. STEFANIDES.
- COMPUTATION WORK AS COMPUTING ASSISTANT AT THE ATLANTIC HOUSE, LONDON, POPULATION SURVEYS DEPARTMENT, DURING THE PERIOD OF SEPT. 1973 TO JAN. 1974.

C. PROFESSIONAL EXPERIENCE

- SUMMER 1974 - SUPERINTENDENT, KOLOKOTRONIS SHIPPING Co. (UNDER DIRECTOR M.S.MATANTOS)
- BETWEEN OCT. 1974 - SEPT 1975, WORKED AS ELECTRICAL/MECHANICAL ENGINEER OF THE CHANDRIS SHIPYARDS S.A., AT SALAMIS ISLAND, PIRAEUS DEALT WITH THE GENERAL WORK OF CABLE INSTALLATION, PANELS FOR THE YARD EXPANSION. INTERLOCKING SYSTEM INSTALLATION BETWEEN MAINS AND AUXILLIARY GENERATING SET. HYDRAULIC PRESS EXAMINED AND EQUIPPED FOR SAFE FUNCTION RESPONSIBLE FOR

INTRALOCK AMERICAN SUBSIDIARY COMPANY - MACHINERY INSTALLATION INSIDE THE YARD, FOR THE PRODUCTION OF PREFABRICATED CONCRETES. SIMULTANEOUSLY RESPONSIBLE SUPERINTENDENT ENGINEER,

SUCCESSFULLY ACCOMPLISHED REPAIRS, ONE ON THE USS VREELAND, AND

ONE ON TWO LCM BOATS OF THE 6th FLEET, BOTH OF WHICH LASTED

APPROX. 6 MONTHS.

- **SEPT. 1975 - MAR 1976, WORKED WITH SHIP CONTROL LTD. COMPANY OF VASSILEOS CONSTANTINOU STR, 8 PIRAEUS. ENGINEERING OFFICES OF GENERAL ELECTROMECHANICAL INSTALLATION. MAJOR TIME SPENT IN PREPARING QUOTATIONS FOR THE CONSTRUCTION AND SUPPLY OF ALL THE EQUIPMENT OF TWO OCEAN GOING TUG BOATS AND TEN PATROL BOATS OF THE GREEK NAVY, AND ASLO FOR FIVE SMALL LOADERS.**
- **MARCH 1976 - GENERAL INDUSTRIAL HELLENIC CO. LTD (GENERAL ELECTRIC) STADIOU STR, 10 - ATHENS WORKED AS SALES ENGINEER (ASSISTANT TECHNICAL MANAGER).**
- **MAY - JUNE 1978 - EDOC S.A - ETER S.A/CONTINENTAL ELECTRONICS, DALLAS, TEXAS - JOINT VENTURE ELECTRICAL/ELECTRONICS, ENGINEER-SUPERPOWER (2MW) TRANSMITTER STATIONS PROJECT - SAUDI ARABIA (ATHENS BASED, SITES VISITING). DUBA, QURAYAT, JIZAN, DAMMAM, RIYAH.**
- **HELLENIC AEROSPACE INDUSTRY (HAI)**

SUPERVISOR AIRCRAFT ENGINE ELECTRICAL ACCESSORIES - 30 OCT 1978 - FEB 1984.

SUPERINTENDENT AIRCRAFT ENGINE ACCESSORIES AND ELECTRICAL TEST SECTION (ALSO ACTING TEST CELL/ACCESSORIES BRANCH MANAGER) - FEB 84 - END OF 1989 SUPERINTENDENT ENGINES MANUFACTURING ENGINEERING METHODS - JAN 1990. (SNECMA - HAI, M53P2 ENGINE (MOD 10) -COPRODUCTION).

MAR - APRIL 1990: LEAD (MOD-10) MANUFACTURING GROUP FOR SPECIAL TRAINING IN PARIS, (SNECMA)

25-29 JULY 1988 ACTING ENGINES' DIVISION MANAGER

28 JULY 1988 : ACCOMPANIED QUALITY MANAGER AND HAI GENERAL MANAGER TO M53P2 ENGINE DELIVERY CEREMONY TO HELLENIC AIRFORCE.

RESEARCH AND DEVELOPMENT LEAD ENGINEER, WEAPON SYTEMS - APRIL 1992. ENGINEERING QUALITY ASSURANCE DEPT., LEAD ENGINEER - SEPT. 1995 TO NOV.1999

HEAD OF STANDARDS AND CERTIFICATION , ELECTROMAGNETIC COMPATIBILITY,

EMC HELLAS S.A., AFFILIATE OF HELLENIC AEROSPACE INDUSTRY S.A. (JOINED ENTERPRISE NOV. 1999).

JANUARY 2005

PROFESSIONAL ENGINEER , HELLENIC AEROSPACE INDUSTRY S.A.
ELECTRONIC SYSTEMS DESIGN AND DEVELOPMENT DIVISION
[EUROPEAN PROGRAMME “FLYSAFE ”]

JULY 2006

BACK TO EMC HELLAS S.A. [NOTIFIED BODY for EMC] , HEAD OF
STANDARDS AND CERTIFICATION .

30 JUNE 2010 Retired.

D. PUBLICATIONS CONFERENCES

1] OCT. 1982 SCIENTIFIC PUBLICATION OF THE SOCIETY OF ELECTRICAL AND MECHANICAL ENGINEERS ENERGY CONSERVATION P.C. STEFANIDES article, Pages 114-117.

2] 20-22 OCT.1982 Proceedings of the FIRST NATIONAL CONFERENCE ON"PASSIVE SOURCES OF ENERGY", Abstracts of Interventions, P.C.STEFANIDES, Page 143

3] 6-8 NOV. 1985

SECOND NATIONAL CONFERENCE ON "PASSIVE ENERGY SOURCES"

(Institute of Solar Technology) University of Thessaloniki,

P.C. STEFANIDES, Paper in Volume (A), Pages 389 - 396

4] 13-17 SEPT. 1987, T.E.I PATRAS CONFERENCE, APPLICATIONS OF SOLAR ENERGY. P.C. STEFANIDES - PAPER IN COFERENCE PROCEEDINGS.

5] FIRST NATIONAL SYMPOSIUM OF AUTOMATIC CONTROL AND ROBOTICS ORGANIZED BY THE TECHNICAL CHAMBER OF GREECE 16 - 18 DEC. 1987, AT THE EYGENIDION INSTITUTE, ATHENS P.C.STEFANIDES - PAPER IN VOLUME II OF CONFERENCE PROCEEDINGS

6] PRESENTATION OF PROTOTYPE WORK AT THE FIRST PANHELLENIC CONFERENCE ON THE HISTORY AND PHILOSOPHY OF ANCIENT GREEK MATHEMATICS, ORGANIZED BY THE MATHEMATICAL SOCIETY OF GREECE (2-3-4 MARCH 1989) AT THE NATIONAL RESEARCH INSTITUTE, (ANNIVERSARY OF 2200 FROM ARCHIMIDES).

WORK SUBJECT: THE MOST BEAUTIFUL TRIANGLE: PLATOS - TIMAEUS (PLATONIC SOLIDS - POLYEDRA)

7] PRESENTATION OF A PAPER ON THE PLATONIC SOLIDS (GEOMETRY RELATED TO ARTS), AFTER INVITATION, AT THE "DEMOKRITEIO" UNIVERSITY OF XANTHI,TRACE, NOV 1991.

8] SENSORS 93 - TECHNICAL CHAMBER OF GREECE 28-5-93 PAPER ON "SENSORS OF A HELIOTROPIC TRACKING SYSTEM" - HAI APPLICATION. P.C. STEFANIDES - PAPER IN COFERENCE PROCEEDINGS.

9] THE ENGINEER AS LINK BETWEEN RESEARCH AND DEVELOPMENT AND INDUSTRY (PRESENTED PAPER FOR HAI, AT THE TWO DAY CONFERENCE OF THE TECHNICAL CHAMBER OF GREECE - 15 AND 16 DEC 1993).

10] PUBLISHED, ENGLISH - GREEK, APPLIED ELECTRONICS, DICTIONARY, 1977.

11] SYMMETRY FESTIVAL 2006 [BUDAPEST CONGRESS CENTER 16/08/2006]Conference PRESENTATION of paper : “Golden root Symmetries of Geometric Forms” .

12] SCIENCE AND ART CONFERENCE[17-20 JAN 2008] OF THE HELLENIC PHYSICISTS' SOCIETY at GAZI TECHNOPOLIS PRESENTATION of paper :
"GOLDEN ROOT SYMMETRIES OF GEOMETRIC FORMS".

13] PRESENTATION TO THE IEE ATHENS CENTER "The Role of EMC HELLAS SA" [Sponsor of the 20 Mar 2000 Athens Holiday Inn Event].

14]PRESENTATION of "SYMMETRIES OF THE PLATONIC TRIANGLES" to the IET HELLAS at the TECHNICAL CHAMBER of GREECE, ATHENS, 30 OCTOBER 2008.

15] PRESENTATION [in place of the Company Managing Director] to the R&TTE CA and ECACB, of EMC HELLAS S.A. as Host and Participant of the Athens Meeting [06 NOV 2003].

16] PUBLICATION OF THE ARTICLE "Certification of Products for Electromagnetic Compatibility" [Greek], in the "ecoQ" Quality Magazine, issue of Mar-apr 2003[the article was,also, distributed to the Body of Engineers in Company via HAI's Association of Professional Engineers].

17] PUBLICATION of Conference paper "Golden root Symmetries of Geometric Forms" in the Journal SYMMETRY: CULTURE and SCIENCE of the "Symmetrion" Editor; Gyorgy Darvas-Volume 17, Numbeers 1-2, 2006 .

18] MEDPOWER2008, 2-5 NOV THESSALONIKI MAKEDONIA PALACE – IET, NTUA, AUTH, PRESENTED PAPER: "Compliance of Equipment in Accordance with an Adequate Level of Electromagnetic Compatibility". <http://www.medpower08.com/default.htm> .

19] Work Published in International Web by the :

- NATIONAL CURVE BANK team of

CALIFORNIA STATE UNIVERSITY,LOS ANGELES CA :

<http://curvebank.calstatela.edu/log/log.htm>

(Mathematical Curves- relating Spirals to Logarithms)

<http://curvebank.calstatela.edu/greatlinks/greatlinks.htm>

<http://curvebank.calstatela.edu/home/home.htm>

- UNIVERSITY OF PORTO :

Volume II/III <http://www.direito.up.pt/IJI/taxonomy/term/4>

<http://www.antigona.web.pt/>

- YOUTUBE:

<http://www.youtube.com/PSTEFANIDES>

E. EXPOSITIONS - AWARDS

1] ATHENS HILTON - 4 FEB. 1983

Exposition and Ceremony of awards of the Hellenic Society of Research and Inventions (H.S.R.I). Silver Medal "ARCHIMEDES", presented by Minister of Research and Technology Mr. LIANIS.

2] International exposition of THESSALONICA 1984 by EOMMEX.

3] TELEVISION ERT-1, System presentation on the 16 Sept. 1984, the final day of the Thessalonica exposition.

4] ATHENS HILTON - 22/23 MAY 1984. Exposition participation and presentation, at the B Seminar of solar energy of eksehe/ elethlen.

5] THESSALONICA - 6/8 NOV. 1985 Exposition of the second National conference on "PASSIVE ENERGY SOURCES", of the Institute of Solar Technology (University of Thessalonica).

6] ATHENS Presentation - 6 DEC. 1985. (Gave Lecture, after invitation, to the students of ELKEPA presenting to them Solar Tracking System).

7] TELEVISION ERT-2, 12 DEC. 1986, SOLAR TRACKING SYSTEM PRESENTATION THROUGH PROGRAMME "INVENTIONS".

8] PATRAS - 13/17 SEPT 1987, CONFERENCE EXPOSITION

9] EYGENIDION INSTITUTE, CONFERENCE EXPOSITION 16-18 DEC 1987. THE SOLAR SYSTEM WAS EXPOSED AT THE ENTRANCE TO THE CONFERENCE HALL, ACCORDING TO THE PERSONAL WISH OF MR. KASSAPIS , DIRECTOR OF "EYGENIDION" AND WAS PRESENTED FUNCTIONING TO THE DELEGATES OF THE CONFERENCE .

["Hliotropio Stefanides" Competed in Create the Future Design Contest 2011, of the NASA Tech Briefs: <http://contest.techbriefs.com/sustainable-technologies-2011/1179>].

10] On the 23 Oct. 2006, at the French-Hellenic Institute , Kolonaki Athens , Eur Ing Panagiotis STEFANIDES BSc(Eng)Lon (Hons), MSc(Eng) Ath, CEng MIET exposed his Conceptual Works and Art Works , [GEOMETRICAL SYMMETRIES , LOGARITHMS SPIRALS, RELATED TO THE ARCHIMEDES SPIRAL, Euclidian/Timaeic SOLIDS his SOLAR LOCATING AND TRACKING SYSTEM[Heliotropio Stefanides] and its OPTICAL AND ELECTROMECHANICAL SPEED MEASURING by products] and was granted

"The Scientific Constructions Award " of the EUROPEAN SOCIETY OF SCIENTISTS ARTISTS Lit. WRITERS .

The award was conferred by Professor of Advanced Mathematics Leonidas GOGETSOF, ex Rector of the Democriteio University, Xanthe ,Thrace , Honorary President of the Society, and Dr. Elpida MITROPOULOU PhD[Lon] Arcaeologist Art Critic, President .

11] SYMMETRY FESTIVAL 2006 BUDAPEST POSTER exposition 12- 16 AUG. 2006 "Golden root Symmetries of Geometric Forms" ,

12] SCIENCE AND ART CONFERENCE OF THE HELLENIC PHYSICISTS' SOCIETY

TECHNOPOLIS POSTER Exposition :

"GOLDEN ROOT SYMMETRIES OF GEOMETRIC FORMS"[17-20 JAN 2008 at GAZI].

F. P.C. STEFANIDES PATENTS (EX) :

1] 69.349 SOLAR TRACKING SYSTEM - 1982

2] 71.013 LIGHT TO LIGHT PHOTO-SWITCH - 1983

3] 71.494 HELIOTROPIC (HELIOSTAT - CENTRAL POWER TOWER SOLAR SYSTEM - 1983

4] 71.495 ACTIVATED POWER SOURCE DISPLACED IN SPACE, TRACKING - 1983

5] 72.575 DIFFERENTIAL PHOTO-SWITCH (DIFFERENTIAL LIGHT AMPLIFIER) - 1983

6] 73.966 SOLAR TRACKING SYSTEM (SOURCE TRACKING SYSTEM)
OVER THE WHOLE SKY - 1984.

7] 850.781 SOLAR TRACKING SYSTEM - MATHEMATICAL MODEL - 1985

G. APPLICATIONS OF INVENTIONS

**ELECTROMECHANICAL AND OPTICAL SPEED MEASURING
INVENTIONS [BY-PRODUCTS OF “THE HELIOTROPIO”] OF SYSTEMS
APPLIED TO AIRCRAFT ENGINES’ NOZZLES’ and AIR-FLOW REGULATORS’
MEASUREMENTS , IN HAI.**

H. LICENSES : FULL PROFESSIONAL LICENSES.

**ELECTRICAL AND MECHANICAL OF THE TECHNICAL CHAMBER OF
GREECE. ALSO COMMERCIAL AND TEACHING LICENSES.**

I. INTERESTS

LANGUAGES, MUSIC, PAINTING, PHILOSOPHY, RESEARCH.

J. LANGUAGES

GREEK, ENGLISH, ITALIAN, FRENCH, CLASSICAL GREEK, LATIN , SPANISH.

RESUME



**Eur Ing Panagiotis Chr. Stefanides BSc(Eng) Lon(Hons) MSc(Eng)NTUA TEE
CEng MIET**

**Emeritus Honoured Member of the Technical Chamber of Greece
IET Hellas[Greece] Local Network Secretary [2010]**

Born: 05. Jan..1945, Aigaleo, Athens.

Professional and Academic Qualifications:

- [2002] Chartered Engineer of the Engineering Council (UK),
- [2002] Member of the IEE[IET] ,
- [1997] Certified Lead Auditor [Cranfield University],
- [1977] Member of the Technical Chamber of Greece TEE,
- [1975] Electrical and Mechanical Engineer of the Technical
University of Athens,

- [1974] Electrical Engineer of the University of London .

Professional Experience:

30 Jun 2010-1978 [HAI]

- Electromagnetic Compatibility, Head of Standards and Certification, EMC Hellas SA, Affiliate of HAI,
- Research and Development, Lead Engineer, of the Electronic Systems Tests and Certification,
- Engineering Quality and Reliability Section, Lead Engineer, and HAI's Quality System Lead Auditor,
- Engines' Directorate Superintendent, Managed the Engineering Methods Division of the M53P2 Engine Nozzle Manufacturing, of the SNECMA- HAI Co-production[Module 10] M53 P2 Programme, MANAGED the Engineering Methods Section.
- Engines' Tests and Accessories Superintendent,
- Engines' Electrical Accessories Supervisor.

1978-1974

- G.E., Athens Representatives, Sales Engineer / Assistant Manager,
- Continental Electronics Dallas Texas, and EDOK-ETER Consortium Engineer, of a 2MW Superpower Transmitters' installation Programme, in Saudi Arabia,
- Chandris Shipyards Engineer and Vessel repairs Superintendent, Salamis Island.

Training:

Public Power Corporation [GR], Sizewell Nuclear Power Station [UK], Oceangoing Steamship [S/S Chelattros] and Motor Vessels' Navigation [Celestial, Radio, Coastal] and Engines', of "Kassos" Shipping Co. Ltd. [R&K London].

Presentations, Publications, Conferences, Awards :

BOOK Published 2010 "Golden Root Symmetries of Geometric Forms"

Ref Conference: http://www.stefanides.gr/Html/GOLDEN_ROOT_SYMMETRIES.htm

Publication: "Golden Root Symmetries of Geometric Forms" The journal of the Symmetry: Culture and Science, Volume 1q7, Numbers 1-2, 2006, pp 97-111

Award: Archimedes Silver Medal for the Invention of a **Solar** Locating and **Tracking** System, by the Hellenic Society of Research and Inventions, Athens Hilton 4 Feb 1983.

"Hliotropio Stefanides" Competed in Create the Future Design Contest 2011, of the NASA Tech Briefs

<http://contest.techbriefs.com/sustainable-technologies-2011/1179>].

Latet paper issued to :

MEDPOWER 2008 [IET] in Thessaloniki [2-5 Nov. 2008] under the title:

"Compliance of Equipment in Accordance with an Adequate Level of Electromagnetic Compatibility",

Eur Ing Panagiotis Chr. Stefanides, Head of Standards and Certification EMC Hellas sa, Affiliate of Hellenic

Aerospace Industry sa [HAI] 2-4, Messogion Ave[Athens Tower], 11527 Athens, Greece.

<http://www.youtube.com/pstefanides#g/u>

http://www.stefanides.gr/Pdf/CV_STEFANIDES.pdf .

(C.V.), <http://www.stefanides.gr>



BSc(Eng)Lon(Hons) MSc(Eng)NTUA Eur Ing CEng MIET

ΠΡΟΣΩΠΙΚΕΣ ΠΛΗΡΟΦΟΡΙΕΣ

- Τόπος Γέννησης: Αιγάλεω Αττικής
- Χρόνος: 05/01/1945
- Εθνικότητα: Ελληνική
- Εγγαμος:Σύζυγος Μαίρη Ψυχολόγος
Κόρη Μαρία Ναταλία [Grad. MRes Global Politics QMUL – Phd Std]
- Κάτοικος : Κηφισιάς , Αλωνίων 8,
- Τηλ/Fax : 210 8011291
- Mobile: 6974 096824
- panamars@otenet.gr
- <http://www.stefanides.gr>

ΠΑΙΔΕΙΑ

- 1974: BSc (Eng) Lon (Hons)
Electrical Engineering (Electronics)
The University of London.
- 1975: Διπλ. Μηχανολόγος /Ηλεκτρολόγος Μηχ.
Πτυχίο του Ε.Μ.Π.
MSc (Eng) NTUA
Διπλωματική [Πυρηνική Τεχνολογία]:
ΗΛΙΚΙΑ ΦΕΡΜΙ [FERMI AGE]
Καθ. Δ. Λεωνίδου
[και Έδρας Καθ. Μ. Αγγελόπουλος]

Εργασιακή εμπειρία

- 1974 Αρχιμηχανικός Πλοιοκτήτριας Εταιρείας
«Κολοκοτρώνη», Λονδίνο (Θερινή Περίοδος).
- 1974-1975: Ναυπηγεία Χανδρή - Σαλαμίνα
- 1975-1976: Μηχανικός Μελετών
Μελετητικό Γραφείο SHIP CONTROL (ΠΕΦΑΝΗΣ)
- Πειραιά
- 1976-1977: Μηχανικός Πωλήσεων/ Βοηθός Τεχνικός Διευθυντής
(G.E. Αθήνα)
- 1977-1978: Ηλεκτρολόγος Μηχανικός Εγκατάστασης Πομπών στην
Σαουδική Αραβία Superpower Transmitter Stations
(2 MW) Duba, Qurayat, Jizan, Dammam, Riyadh με την
EDOK-ETER/ Continental Electronics Dallas Texas-
Joint Venture.
- 1978-2010: Ελληνική Αεροπορική Βιομηχανία
- 1978-1984: Επόπτης Ηλεκτρολογικών Παρελκομένων Αεροκινητήρων

- 1984-1989: Τμηματάρχης Δοκιμαστηρίων Παρελκομένων Αεροκινητήρων και συγχρόνως Αναπληρωτής Τομεάρχης Δοκιμαστηρίου Αεροκινητήρων (TEST CELL)
- 1990-1992: Τμηματάρχης Μελετών, Μεθόδων Κατασκευών (Πλήρη Χρέη Τομεάρχου Κατασκευών Αεροκινητήρων)
-Συμπαγωγή Module 10, Κινητήρα M53P2, Mirage 2000 EAB-SNECMA .
- 1992-1995: Έρευνα και Ανάπτυξη Οπλικών Συστημάτων, Ειδικός Μηχανικός (Lead Engineer).
- 1995-1999: Quality and Reliability Lead Engineer
Πιστοποιήσεις Προϊόντων EAB / ISO 9001 EAB
- Από τον Νοέμβ. του 1999 μέχρι Ιαν 2005: EMC ΕΛΛΑΣ Α.Ε.
-Συμβολή στη δημιουργία της Εταιρίας
-Προϊστάμενος Προτύπων και Πιστοποίησης
-Απο Ιαν. 2005 EAB ΜΗΧΑΝΙΚΟΣ Δ/ΣΗΣ ΕΡΕΥΝΑΣ ΤΕΧΝΟΛΟΓΙΑΣ ΚΑΙ ΜΕΛΕΤΩΝ [Ευρ. Πρόγραμμα « FLYSAFE”]
-Επιστροφή στην EMC ΕΛΛΑΣ Α.Ε. [Προϊστάμενος Προτύπων και Πιστοποίησης] τον Ιούλιο του 2006-30 ΙΟΥΝ 2010.

ΕΚΠΑΙΔΕΥΣΕΙΣ

- Μεταπτυχιακές σπουδές Management, Troy University Athens Base 1980-1981
Έρευνα Θραυστομηχανικής ΕΜΠ με Καθηγητή τον κ. Δ. Πάζη 1991-1992
- Snecma, Module 10 - Εκπαίδευση Συμπαγωγής MOD-10 Κινητήρα M53 P2 (Mirage 2000) , Μαρ.- Απριλ 1990
- Reliability Engineering -Σεμινάριο -Βρυξέλλες 1997-CBO.
- LEAD ASSESSOR TRAINING COURSE
[1997 - Cranfield University – Certificate]
- 1998 - Εκπαίδευση στην EAB Γαλλικών (6 μήνες)
- EMC Οδηγία 89/336
- Οδηγία 99/5 (Τεχνικός Κατασκευαστικός Φάκελος)
- ΗΛΕΚΤΡΟΜΑΓΝΗΤΙΚΗ ΣΥΜΒΑΤΟΤΗΤΑ
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ΜΕΛΟΣ

- 1977 TEE (Αρ. Μητ. 26228) , ΟΜΟΤΙΜΟ ΜΕΛΟΣ 2010
- 1992 FEANI (Eur Ing) REG No.: 12342 GR
- 2002 MIET [ex. IEE] , CEng, Chartered Electrical Engineer [U.K.]
- Μέλος Διοικητικού Συμβουλίου IEE Hellas Center 2000-2003

**ΑΛΛΕΣ
ΕΠΑΓΓΕΛΜΑΤΙΚΕΣ
ΔΡΑΣΤΗΡΙΟΤΗΤΕΣ**

- Μέλος Δ.Σ. Διπλωματούχων Μηχανικών ΕΑΒ 1997 - 2003
- Πολλαπλές εισηγήσεις σε Εθνικά Συνέδρια και Συνέδρια με Διεθνή Συμμετοχή καθώς και στα Μαθηματικά FORA του Διαδικτύου.
Εκπροσώπηση της Ε.Α.Β. ως ομιλήτης στο ΤΕΕ Διήμερο 15-16 Δεκ.1993,
“Σύνδεσμος Έρευνας και Παραγωγής στην Ελλάδα”
Παρουσίαση της EMC ΕΛΛΑΣ α.ε. στο ΙΕΕ , Holiday Inn ,Αθήνα 2000
- Έκδοση Αγγλοελληνικού λεξικού APPLIED ELECTRONICS DICTIONARY - 1977
- Πρότυπη εφαρμογή ευρεσιτεχνίας (Στεφανίδη) οπτικού ταχύμετρου στα δοκιμαστήρια παρελκομένων κινητήρων Ε.Α.Β. και παρουσίαση του στο Συνέδριο «Αισθητήρες 93» του Τ.Ε.Ε. (1993) ,καθώς επίσης παρουσιάσεις ευρεσιτεχνίας Ηλιοτροπικού Μηχανισμού σε εκθέσεις ΕΟΜΜΕΧ Θεσσαλονίκης (1984) ΕΛΕΤΗΛΕΝ-ΕΚΣΕΗΕ (Αθήνα HILTON) και Εθνική Τ.Υ. ΕΡΤ.
- Βραβείο «Αρχιμήδης» της Ελληνικής Εταιρείας Έρευνας και Εφευρέσεως (από τον Υπουργό κ. Γ. Λιάνη) – 1984 για υπερ’ αυτόματο σύστημα εντοπισμού και παρακολούθησης της κίνησης του ηλίου (Solar Tracking System/Ηλιοτρόπιο Στεφανίδης)
- Καλεσμένος Ομιλήτης “SYMMETRY FESTIVAL 2006” Βουδαπέστη
[Οργανωμένο απο τη Ουγγρική Ακαδημία Επιστημών], 16 Αυγ.2006.

Work Published in International Web by the :
NATIONAL CURVE BANK Mathematics Department Team
of the

CALIFORNIA STATE UNIVERSITY , Los Angeles CA:

<http://curvebank.calstatela.edu/log/log.htm>

(Recently Submitted Curves)

<http://curvebank.calstatela.edu/home/home.htm>

(Mathematical Curves-relating Spirals to Logarithms)

UNIVERSITY OF PORTO:

- <http://www.direito.up.pt/IJI/node/62>

- <http://www.antigona.web.pt>

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ΞΕΝΕΣ ΓΛΩΣΣΕΣ

Αγγλικά, Ιταλικά, Γαλλικά, Αρχαία Ελληνικά, Λατινικά, Ισπανικά.



Panagiotis Stefanides

MY WEB LINKS

- 'Buena Fortuna' (artwork)
- Heliotropio Stefanides
- Quantization of Circle Duality
- Logos Pyr Chronos
- Geometric Mean Ratio (T) by Ruler and Compass
- Quadrature Master Theorem
- Corollary (Circle Circumference Correlation)
- Decorated Platonic Solids (artwork)
- Water - Icosahedron (Section)
- Logarithm Spiroid Definition
- PI (n), Transcendental, Natural Log Base
- Classical Problems et Alii with Web Links
- The Most Beautiful Triangle - Timaeus Plato's
- Geometric Concepts in Plato, Related to Art
- Theoretical Circle, Quadrature Presupposition
- Pi, Irrational, Positive Real Root of Fourth Order Equation
- Quadrature of Circle, Theoretical Definition
- Nautilus Log Base Shell Curve
- WHY LOGARITHM New Thesis of General Definition of Logarithm
- Golden root Symmetries of Geometric Forms
- Sensors 93 Technical Chamber Of Greece Greek
- Root Geometries 2011
- All triangles derive their origin from two triangles 2011
- Golden root symmetries of geometric forms
- Proposed Geometry of the Platonic Timaeus
- Poster
- Conference Demokriteio University Greek
- Conference national research institution Greek
- Conference Iht Solar Aristoteleio University Greek
- Symmetry Festival 2006 Budapest Hungary and Heliotropio
- Conference VIDEOS of Symmetry Festival 2006 Budapest Hungary and Heliotropio
- Stefanides Structures
- Photo Gallery
- E-Books Pdf
- Calendar 2007
- Calendar 2008

[Calendar 2001 Space Thesis](#)
[Calendar 2012 Collage](#)
[Calendar 2012 PCST root geometries](#)
[Calendar 2013](#)
[Calendar 2014](#)
[Calendar 2015](#)

[Awards 2006](#)

You can also find here a list of [publication/conferences](#) that I have contributed to.

- 1 [CALENDAR 2010 ICOSASOMNEW45A](#)
- 2 [PANAGIOTIS STEFANIDES PAGE Links](#)
- 3 [SYMMETRIES OF THE PLATONIC TRIANGLES \[WORD\]](#)
- 4 [Math Forum Discussions by Panagiotis Stefanides 2](#)
- 5 [GOLDEN ROOT SYMMETRIES OF GEOMETRIC FORMS](#)
- 6 [PHOTO OCTOBER 2012](#)
- 7 [GEOMETRIC CONCEPTS IN PIATO](#)
- 8 [QRT7A16_64BYPI_1](#)
- 9 [D=5,083FOUR_1](#)
- 10 [BRIDGES 2014 Conference, Seoul Korea, Mathematical Art Gallery.](#)
- 11 [DIALOGO 2014 Science and Theology Virtual Coference, Costanta Romania.](#)



Panagiotis Stefanides

[Symmetry Festival 2006 Budapest Hungary](#)

[Symmetry Festival 2006 Budapest Hungary](#)

Stefanides Conference Presentation Budapest 2006

[Symmetry Festival 2006 Budapest Hungary Video 00](#)
[Symmetry Festival 2006 Budapest Hungary Video 01](#)
[Symmetry Festival 2006 Budapest Hungary Video 02](#)
[Symmetry Festival 2006 Budapest Hungary Video 03](#)
[Symmetry Festival 2006 Budapest Hungary Video 04](#)
[Symmetry Festival 2006 Budapest Hungary Video 05](#)
[Symmetry Festival 2006 Budapest Hungary Video 06](#)

Stefanides Works & Conference Presentations

[Heliotropio Stefanides 01](#)
[Heliotropio Stefanides 02](#)
[Heliotropio Stefanides 03](#)
[Heliotropio Stefanides 04](#)
[Heliotropio Stefanides 05](#)
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Heliotropio Stefanides 07
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Heliotropio Stefanides 09
Heliotropio Stefanides 10

**Sensors 93 Technical Chamber of Greece
[Heliotropio Stefanides Structures]**

Technical Chamber Of Greece 01
Technical Chamber Of Greece 02

Thessaloniki International Fair 1984

Thessaloniki